JAY V. MCGOVERN

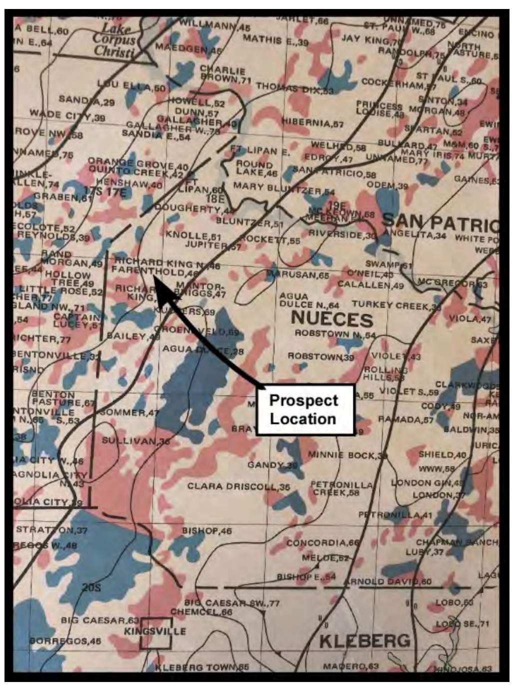
CERTIFIED PETROLEUM GEOLOGIST No. 1170

4226 Petronila Creek, Corpus Christi, TX 78410

Work (361) 883-8606 Mobile (361) 537-2394 Home (361) 767-3206

Richard King Horst Block Prospect

1. County: Nueces
2. State: Texas
3. Acreage: 160 acres paid up 1 year lease
4. Depth: 6600 feet
5. Formation: Frio Sands
6. Targets: Upper and Middle Richard King, Koehler, Pundt, McNeill, Lou Ella and Upper and Lower Stillwell Sands
7. Type of Trap: Up to the Coast Fault Trap
8. Estimated Number of Wells: 3
9. Potential Reserves: 2,210,000 B.O. & 9.43 BCF Gas
10. Complete Dryhole Cost: $486,938; Cost per 1% WI: $6,500



This prospect is subject to prior sale without notice

And can be withdrawn at any time

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Purpose:

The Richard King Horst Block prospect is a 6,600 foot well to test the Basal Frio section found on the up thrown side of the Vicksburg flexure.

Area:

The Richard King Horst Block prospect is 3.5 miles Northeast of Agua Dulce, Texas in the heart of the rich Frio sand trend.

Production:

-Richard King (cum: 22,555,417 B.O. & 80 BCF)
-Agua Dulce (cum: 54,406,507 B.O. & 2.4 TCF)
-Bailey (cum: 1,389,666 B.O. & 21 BCF)
-Stratton (cum: 99.6 M.B.O & 3.3 TCF)
-Kuypers (cum: 198,191 B.O. & .17 BCF)

Geology:

The Richard King prospect is found in a unique geologic setting east of the massive Richard King Frio field, which produces from approximately 20 different reservoirs found primarily between 5,000 and 6,400 feet. The Richard King Horst Block prospect is set up by some very unique faulting. The prospect is bounded by the Vicksburg flexure to the east and a known trapping up-to-the-coast fault to the west of the proposed location. The trapping up-to-the-coast fault trapped oil in the Koehler sand northeast of the prospect area in the Kuypers field. Here it made approximately 198,191 B.O. & .172 BCF gas from 3 wells in the same fault system. The Richard King Horst Block prospect will exploit all of the Frio section that produces in the Richard King field from the trapping up-to-the-coast fault that continues to the southwest and cuts numerous wells as it crosses a regional nose on the prospect acreage.

The Petroleum Inc. – H. Groeneveld #1 (key log #5) found the Koehler sand productive through perforations 5858'-62' and initially came in gas at a rate of 14.5 MM/Day but was reclassified to oil at a rate of 29.5 BOPD. This well started to make saltwater very quickly and produced 252 B.O. and 6,000' MCF of natural gas. In addition to the Koehler sand the Middle Richard King sand is prospective on this same closure. The

Miami-Quebe #1 (key log #3) had good oil cores and tested 25' of oil and 75' of oil cut mud from the Middle Richard King sand. The Petroleum Inc- H. Groeneveld #1 (key log #5) is faulted out in the Middle Richard King sand. However, when it becomes up thrown on the up-to-the-coast fault it is running 60 feet high to the Richard King sand oil test in the Miami-Quebe #1 (key log #3). On this same closure the Upper Richard King sand is prospective, as it is a large producer in the Richard King field. The Frio section below the Koehler called the Pundt, Bierstadt, McNeil, Alice, Lou Ella and the Upper and Lower Stillwell are to be tested to a total depth of 6,600 feet in this test well. The Richard King field produced from approximately 20 different Frio sands from 5,400' to 6,400' which is the entire Basal Frio section. The Richard King Horst Field prospect will be targeting this entire Frio section that could encounter many of the 20 different zones that produced oil and gas in the Richard King field Proper.

Potential Reserves:

Upper Richard King sand:
100 ac. (8' sand) (300 BBLS/AF) = 240,000 B.O.
Middle Richard King sand:
110 ac. (20' sand) (350 BBLS/AF) = 770,000 B.O.
Koelher sand:
100ac. (20' sand) (300 BBLS/AF) = 600,000 B.O.
(.17 BCF)(2.5 x Kuyper acreage) = .43 BCF Gas
Pundt sand:
100 ac. (20' sand) (1000 MCF/AF) = 2 BCF
100 ac. (20' sand) (300 BBLS/AF) = 600,000 B.O.
McNeil sand:
100 ac. (20' sand) (1000 MCF/AF) = 2 BCF
Lou Ella sand:
100 ac. (10' sand) (1000 MCF/AF) = 1 BCF
Upper Stillwell sand:
100 ac. (20' sand) (1000 MCF/AF) = 2 BCF
Lower Stillwell sand:
100 ac. (20' sand) (1000 MCF/AF) = 2 BCF

TOTAL POTENTIAL RESERVES:

2,210,000 B.O. & 9.43 BCF

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Richard King Horst Block Prospect Economics & ROI

Frio Section Oil Targets: Upper and Middle Richard King, and Koehler Sands

Total Potential Reserves: 2,210,000 B.O.

2,210,000 B.O. X $71 per Barrel = $159,910,000
.95 Tax X $159,910,000 = $149,064,500
.75 NRI X $149,064,000 = **$111,798,375**

Frio Section Gas Targets: Koehler, Pundt, McNeill, Lou Ella, and Upper and Lower Stillwell Sands

Total Potential Reserves: 9.43 BCF Gas

9,430,000 MCF Gas X $2.70 = $25,461,000
.95 Tax X $25,461,000 = $24,187,950
.75 NRI X $24,187,950 = **$18,140,962.50**

Total Earle Lease Potential Reserves Worth to WI Partners:
$129,939,338

Potential Return on Investment:

Assuming 3 wells at a total cost of $1.86 Million Dollars*

ROI: 69:1

- Note Values are calculated at $71 Price per Barrel and $2.70 per MCF Gas

CIMARRON ENGINEERING, LLC
AUTHORIZATION FOR EXPENDITURE
AFE # 2018DC0507

WELL NAME:	**CAROL EARLE #1**	**PROPERTY #**			**AFE TYPE**
PROSPECT:	Richard King Horst Block	OPERATOR:	Cimarron Engineering, LLC		DRILLING DEV
STATE:	Texas	W.I. %:		X	DRILLING EXP
COUNTY:	Nueces	LOCATION:	3.5 miles North of Agua Dulce		EQUIPMENT
EST. START DATE:	7/1/2018	ZONE:	Frio		OTHER
COMP. DATE:	7/20/2018	EST. DEPTH:	6,600'		
PURPOSE OF AFE:	Drill and complete 6,600' well.				

INTANGIBLE DRILLING & COMPLETION COSTS	DRY HOLE	COMPLETION	TOTAL
SURVEY AND STAKING	2,000		$ 2,000
LICENSES AND PERMITS	1,050		$ 1,050
LOCATION AND ROAD	7,500		$ 7,500
LOCATION DAMAGES	4,000		$ 4,000
WATER / WATER WELL	12,000		$ 12,000
CONDUCTOR / RAT HOLE / MOUSE HOLE			$ -
MOBILIZATION / DE-MOBILIZATION COST			$ -
DRILLING DAYWORK	10,800	10,800	$ 21,600
FUEL			$ -
DRILLING TURNKEY - 6,600' turnkey	192,525		$ 192,525
COMPLETION RIG - 3 days @ $4,500.00 per day		13,500	$ 13,500
MUD & CHEMICALS			$ -
DISPOSAL / CLOSED LOOP / PIT CLOSURE	4,500		$ 4,500
DRILL BITS			$ -
CEMENTING - SURFACE			$ -
CEMENTING - INTERMEDIATE / LINERS			$ -
CEMENTING - PRODUCTION CASING		18,500	$ 18,500
CEMENTING - REMEDIAL			$ -
CASING CREWS / PICKUP & LAYDOWN / TUBING TONGS		4,500	$ 4,500
EQUIPMENT RENTAL - SURFACE	3,600	1,200	$ 4,800
EQUIPMENT RENTAL - DOWNHOLE			$ -
STIMULATION SERVICES / ACIDIZING			$ -
PUMPING SERVICES / COILED TUBING			$ -
DIRECTIONAL SERVICES			$ -
LOGGING / FORMATION EVALUATION EXPENSE	27,150		$ 27,150
CASED HOLE SERVICES / PERFORATING		7,500	$ 7,500
MUD LOGGING	6,800		$ 6,800
CONTRACT LABOR	900	1,500	$ 2,400
PIPELINE / FACILITIES CONSTRUCTION LABOR		18,000	$ 18,000
CONSULTING SERVICES	1,725	12,925	$ 14,650
ENGINEERING SERVICES	750		$ 750
TRANSPORTATION / TRUCKING	500	4,000	$ 4,500
DRILLING OVERHEAD	4,900	850	$ 5,750
INSURANCE	6,200	450	$ 6,650
ABANDONMENT EXPENSE	25,000		$ 25,000
LAND, LEGAL & GEOLOGY	150,000		$ 150,000
CONTINGENCIES (5%)	23,095	4,686	$ 27,781
INTANGIBLE DRILLING / COMPLETION COSTS	484,995	98,411	$ 583,406

TANGIBLE WELL EQUIPMENT	DRY HOLE	COMPLETION	TOTAL
CASING - SURFACE			$ -
CASING - INTERMEDIATE			$ -
CASING - LINER			$ -
CASING - PRODUCTION - 6,600' of 4 1/2" 10.5# J-55 - $6.75 per foot		44,550	$ 44,550
LINE PIPE			$ -
TUBING - Production - 6,500' of 2 3/8" 4.7# J-55 - $3.90 per foot		25,350	$ 25,350
PACKERS / BRIDGE PLUGS / LINER HANGERS		2,800	$ 2,800
FLOAT EQUIPMENT		4,500	$ 4,500
SUBSURFACE EQUIPMENT - OTHER			$ -
WELLHEAD EQUIPMENT	1,850	4,500	$ 6,350
PUMPING UNITS / MOTOR			$ -
RODS / DOWNHOLE PUMP			$ -
SUPPLIES - PIPE / VALVES / FITTINGS		12,500	$ 12,500
TANKS - 300 bbl steel (3)		33,000	$ 33,000
SEPARATORS - 2 phase HP & 3 phase LP		8,500	$ 8,500
TREATERS / GUN BARRELS			$ -
SURFACE EQUIPMENT - OTHER			$ -
METERS / METER RUNS		2,200	$ 2,200
DEHYDRATOR			$ -
PIPELINE			$ -
ELECTRICAL			$ -
CONSTRUCTION OVERHEAD			$ -
CONTENGENCIES (5%)	93	6,895	$ 6,988
TOTAL TANGIBLE LEASE AND WELL EQUIPMENT	1,943	144,795	146,738
TOTAL ESTIMATED COSTS	486,938	243,206	$ 730,144

WORKING INTEREST OWNER	**W.I. % BCP**	**W.I. % ACP**	**BCP**	**ACP**	**TOTAL**
1% W.I.	0.01333	0.01000	6,493	2,432	$ 8,925
5% W.I.	0.06667	0.05000	32,463	12,160	$ 44,623
10% W.I.	0.13333	0.10000	64,925	24,321	$ 89,246
25% W.I.	0.33333	0.25000	162,313	60,802	$ 223,115

CIMARRON ENGINEERING, LLC APPROVAL BY: *James L. Geryk* DATE: May 7, 2018

TITLE: President

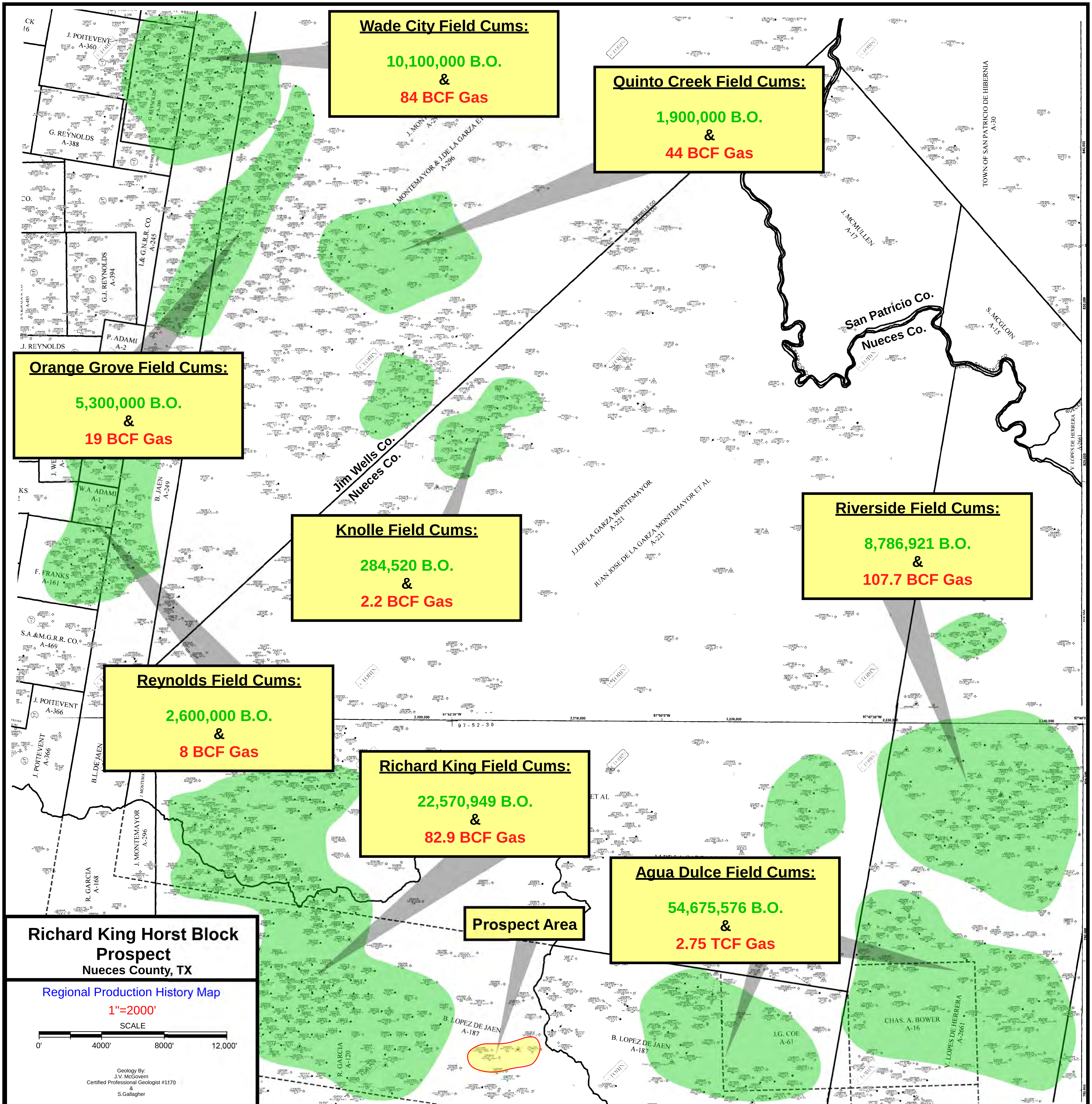
APPROVED BY: DATE:

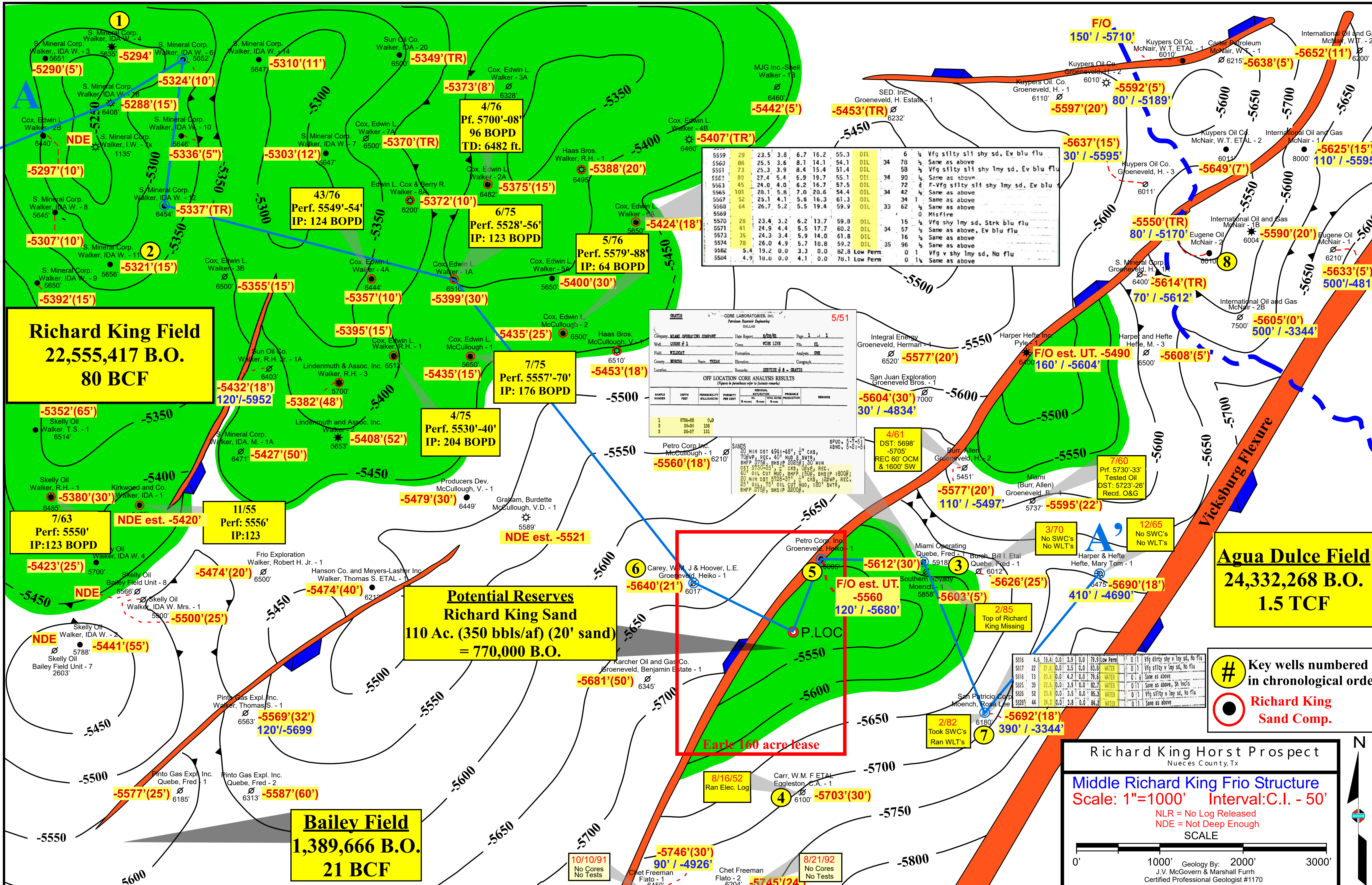
COMPANY: TITLE:

PARTICIPANT OEE (WELL CONTROL) INSURANCE ELECTION: (CHECK ONE)

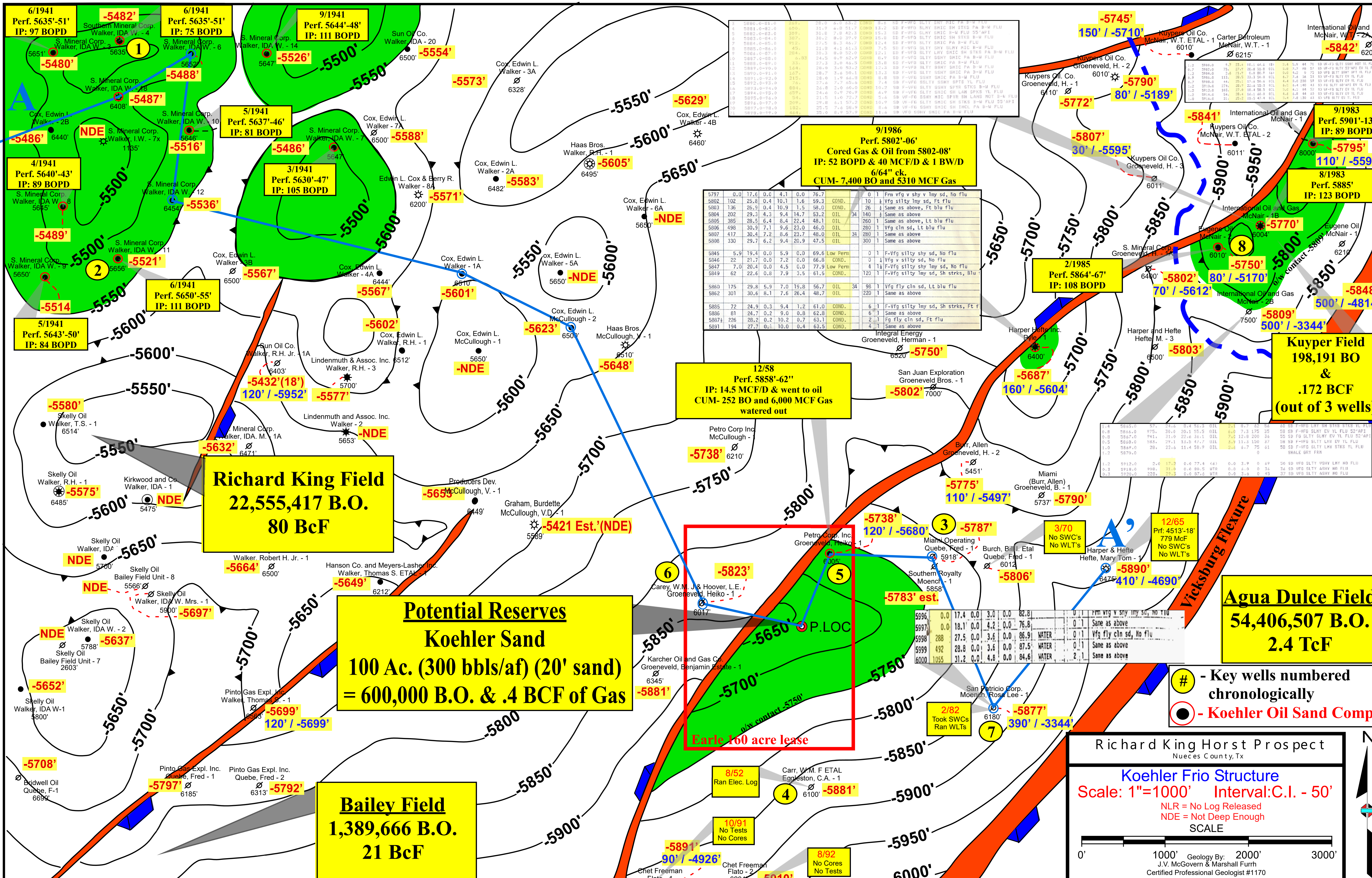
____ Self Insured* ____ Carry Own EEE Policy* ____ Request Coverage Under Operator's Policy

* Send Certificate of Insurance or letter confirming Self-Insurance. If you do not indicate an election prior to spud date, you will be covered under the Operator's OEE policy and billed a proportionate share of the premium.


Wade City Field Cums:
10,100,000 B.O.
&
84 BCF Gas
Quinto Creek Field Cums:
1,900,000 B.O.
&
44 BCF Gas
Orange Grove Field Cums:
5,300,000 B.O.
&
19 BCF Gas
Knolle Field Cums:
284,520 B.O.
&
2.2 BCF Gas
Riverside Field Cums:
8,786,921 B.O.
&
107.7 BCF Gas
Reynolds Field Cums:
2,600,000 B.O.
&
8 BCF Gas
Richard King Field Cums:
22,570,949 B.O.
&
82.9 BCF Gas
Aqua Dulce Field Cums:
54,675,576 B.O.
&
2.75 TCF Gas
Prospect Area
Jim Wells Co.
Nueces Co.
San Patricio Co.
Nueces Co.
Richard King Horst Block
Prospect
Nueces County, TX
Regional Production History Map
1"=2000'
SCALE
0'
4000'
8000'
12,000'
Geology By:
J.V. McGovern
Certified Professional Geologist #1170
&
S.Gallagher



Richard King Field
22,555,417 B.O.
80 BCF
Agua Dulce Field
24,332,268 B.O.
1.5 TCF
Bailey Field
1,389,666 B.O.
21 BCF
Potential Reserves
Richard King Sand
110 Ac. (350 bbls/af) (20' sand)
= 770,000 B.O.
Vicksburg Flexure
Earle 160 acre lease
P.LOC
A
A'
4/76
Pf. 5700'-08'
96 BOPD
TD: 6482 ft.
43/76
Perf. 5549'-54'
IP: 124 BOPD
6/75
Perf. 5528'-56'
IP: 123 BOPD
5/76
Perf. 5579'-88'
IP: 64 BOPD
7/75
Perf. 5557'-70'
IP: 176 BOPD
4/75
Perf. 5530'-40'
IP: 204 BOPD
11/55
Perf: 5556'
IP:123
7/63
Perf: 5550'
IP:123 BOPD
NDE est. -5420'
NDE est. -5521
F/O est. UT. -5490
160' / -5604'
F/O est. UT. -5560
120' / -5680'
F/O
150' / -5710'
4/61
DST: 5698'-5705'
REC 60' OCM & 1600' SW
7/60
Pf. 5730'-33'
Tested Oil
DST: 5723'-26'
Recd. O&G
3/70
No SWC's
No WLT's
12/65
No SWC's
No WLT's
2/85
Top of Richard King Missing
2/82
Took SWC's
Ran WLT's
8/16/52
Ran Elec. Log
10/10/91
No Cores
No Tests
8/21/92
No Cores
No Tests
Key wells numbered in chronological order
Richard King Sand Comp.
Richard King Horst Prospect
Nueces County, Tx
Middle Richard King Frio Structure
Scale: 1"=1000' Interval:C.I. - 50'
NLR = No Log Released
NDE = Not Deep Enough
SCALE
0' 1000' 2000' 3000'
Geology By:
J.V. McGovern & Marshall Furrh
Certified Professional Geologist #1170
N
-5294' -5290'(5') -5324'(10') -5288'(15') -5297'(10') -5336'(5") -5307'(10') -5337'(TR) -5321'(15') -5392'(15') -5310'(11') -5303'(12') -5349'(TR) -5373'(8') -5370'(TR) -5372'(10') -5375'(15') -5388'(20') -5355'(15') -5357'(10') -5399'(30') -5400'(30') -5424'(18') -5407'(TR') -5442'(5') -5453'(TR) -5395'(15') -5435'(25') -5432'(18') 120'/-5952 -5382'(48') -5435'(15') -5453'(18') -5352'(65') -5408'(52') -5427'(50') -5380'(30') -5479'(30') -5474'(20') -5474'(40') -5423'(25') -5500'(25') -5441'(55') -5569'(32') 120'/-5699 -5577'(25') -5587'(60') -5640'(21') -5681'(50') -5560'(18') -5604'(30') 30' / -4834' -5577'(20') -5577'(20') 110' / -5497' -5595'(22') -5612'(30') -5626'(25') -5603'(5') -5690'(18') 410' / -4690' -5692'(18') 390' / -3344' -5703'(30') -5746'(30') 90' / -4926' -5745'(24') -5608'(5') -5605'(0') 500' / -3344' -5614'(TR) 70' / -5612' -5633'(5') 500'/-4814 -5590'(20') -5550'(TR) 80' / -5170' -5649'(7') -5637'(15') 30' / -5595' -5625'(15') 110' / -5595' -5592'(5') 80' / -5189' -5597'(20') -5638'(5') -5652'(11')



Richard King Horst Prospect
Nueces County, Tx
Koehler Frio Structure
Scale: 1"=1000' Interval:C.I. - 50'
NLR = No Log Released
NDE = Not Deep Enough
SCALE
0' 1000' 2000' 3000'
Geology By: J.V. McGovern & Marshall Furrh
Certified Professional Geologist #1170
- Key wells numbered chronologically
- Koehler Oil Sand Comp.
Richard King Field
22,555,417 B.O.
80 BcF
Potential Reserves
Koehler Sand
100 Ac. (300 bbls/af) (20' sand)
= 600,000 B.O. & .4 BCF of Gas
Bailey Field
1,389,666 B.O.
21 BcF
Agua Dulce Field
54,406,507 B.O.
2.4 TcF
Kuyper Field
198,191 BO
&
.172 BCF
(out of 3 wells)
Vicksburg Flexure
Earle 160 acre lease
P.LOC
A
A'
6/1941 Perf. 5635'-51' IP: 97 BOPD
6/1941 Perf. 5635'-51' IP: 75 BOPD
9/1941 Perf. 5644'-48' IP: 111 BOPD
5/1941 Perf. 5637'-46' IP: 81 BOPD
4/1941 Perf. 5640'-43' IP: 89 BOPD
3/1941 Perf. 5630'-47' IP: 105 BOPD
6/1941 Perf. 5650'-55' IP: 111 BOPD
5/1941 Perf. 5643'-50' IP: 84 BOPD
9/1986 Perf. 5802'-06' Cored Gas & Oil from 5802-08' IP: 52 BOPD & 40 MCF/D & 1 BW/D 6/64" ck. CUM- 7,400 BO and 5310 MCF Gas
12/58 Perf. 5858'-62" IP: 14.5 MCF/D & went to oil CUM- 252 BO and 6,000 MCF Gas watered out
2/1985 Perf. 5864'-67' IP: 108 BOPD
9/1983 Perf. 5901'-13' IP: 89 BOPD
8/1983 Perf. 5885' IP: 123 BOPD
3/70 No SWC's No WLT's
12/65 Prf: 4513'-18' 779 MCF No SWC's No WLT's
2/82 Took SWCs Ran WLTs
8/52 Ran Elec. Log
10/91 No Tests No Cores
8/92 No Cores No Tests


A
A'
S. Minerals R. King #16B KB: 134'
S. Minerals Walker #18 KB: 126'
S. Minerals Walker #6 KB: 121'
S. Minerals Walker #12 KB: 125'
Cox Walker #1-A KB: 123'
Cox McCullough #2 KB: 126'
Carey & Hoover Groeneveld #1 KB: 120'
Proposed Location
Petro Corp Groenevel #1 KB: 120'
Miami Quebe #1 KB: 128'
San Patricio Corp Moench #1 KB: 128'
Harper Hefte Mary Tom Hefte #1 KB: 110'
Permanent Datum
Richard King Horst Block Prospect
Potential Reserves:
Upper Richard King Sand:
100ac. (8'sand)(300BBLs/AF) = 240,000 BO
Middle Richard King Sand:
110ac.(20'sand)(350BBLs/AF) = 770,000 BO
Koelher Sand:
100ac.(20'sand)(300BBLs/AF) = 600,000 BO
(.17 BCF)(2.5 x Kuyper acreage) = .43 BCF Gas
Pundt Sand:
100ac.(20'sand)(1000MCF/AF) = 2 BCF Gas
100ac.(20'sand)(300BBLs/AF) = 600,000 B.O.
McNeill Sand:
100ac.(20'sand)(1000MCF/AF) = 2 BCF Gas
Lou Ella Sand:
100ac.(10'sand)(1000MCF/AF) = 1 BCF Gas
Upper Stillwell Sand:
100ac.(20'sand)(1000MCF/AF) = 2 BCF Gas
Lower Stillwell Sand:
100ac.(20'sand)(1000 MCF/AF) = 2 BCF Gas
Sinton
"C" Marker
Upper Richard King
Middle Richard King
Koehler
Pundt
McNeill
Lou Ella
Upper Stillwell
Lower Stillwell
Trapping Fault
120' Up-to-the-Coast Fault
120'
Target 1
Target 2
Target 3
Target 4
Target 5
Target 6
Target 7
TD: 6600'
Richard King Field Cums Between 5000' to 6400':
22,000,000 BO &
83 BCF Gas
Cored Oil @ 4945' & 4948'
Richard King Horst Block Prospect
Nueces County, Tx
Structural Cross Section
Vertical Scale: 1"=100'
Horizontal Scale: Approx.
Geology By:
J.V. McGovern
Certified Professional Geologist #1170
& Marshall Furrh & Tanner Bowersox

1

Southern Minerals
Ida Walker #4

PARISH Nueces — SURVEY [illegible] — FARM [illegible] — AREA [illegible]ville-King

COMPANY S[illegible]ERN [illegible] CORP. ([illegible] Broadway, Corpus Christi)

WELL NO 4 — FARM Ida [illegible] Walker

LOCATION 1980' fr N/L & 1320' fr [illegible] of sec #33, R.King Farm lots, on 640-ac lsc, 9[illegible]' E-NE of #3 well.

ELEV. 126' DF

STATE Texas

REMARKS	PALEO
soft sd gas odor 5606½-19'	
soft sd oil odor 5619-25	
sd S.O. 5635-50'	

COMPLETION

T. PAY	
T. D.	5635' sd
PERF	5650'
SHOTS	5644-48'
PRESSURES	20
GRAVITY	TP 775#, CP 1000#
WATER	39.1
COMPLETED	none
I. P	2-1-41
	76.42 BPD on 7/64" ch
CASING RECORD	GORatio 1202-1
	10-3/4" 1077'
	5½" 5650'
	2" tbg 5633'

The Oil Report

3

MIAMI OPERATING COMPANY
NO. 1 FRED QUEBE

WILDCAT

NUECES COUNTY, TEXAS

330' N & E LNS OF
W½ OF SW¼ OF SEC. #46
RICHARD KING FARM LOTS

3½ MI. ENE OF AGUA DULCE

ABND TD 5918'

ELEV. 108' GR.
118' DF.
SPUD. 5-7-51
ABND. 5-21-51

SANDS
20 MIN DST 4941-48', ¼" CKS,
70#WP, REC. 40' MUD & SWTR,
BHFP 375#, BHSIP 2025#; 30 MIN
DST 5730-35', ¼" CKS, 0#WP, REC.
40' OIL CUT MUD, BHFP 150#, BHSIP 1800#;
20 MIN DST 5728-37', ¼" CKS, 12#WP, REC.
25' OIL, 75' OIL CUT MUD, 120' SWTR,
BHFP 275#, BHSIP 2200#.

CASING
10-3/4" CSG. 719'

RAN ELECTRICAL LOG

THE SPOTLIGHT 6-22-51

F. WILLIAM CARR
#1 C. A. Eggleston

Wildcat

TD 6100'

Casing: 10-3/4" @ 1100'

NUECES COUNTY, TEXAS
467' fr NL & EL of Sec. #38,
Richard King Farm Lots; 3 mi NE
of Agua Dulce.

Elev. Est. 118/108
Spud. 8-16-52
D & A 8-30-52

LOG

Drld. & cored: 4943-4957 (2) 14' sdy sh
- 65 8' sdy sh
- 79 (2) limy sh
- 86 1' sdy sh; 6' sh
- 93 2'6" sh; 4' sd, swtr.
- 99 6' sd, swtr.
-5009 9' ashy sd, swtr.; 6" sh
- 22 (2) 13' sh

Drld. to 5700' & ran Schl.
SW Cores: 5587, 5584, 5583' sd, n/s
5296, 5295, 5294, 5293' limy sd, n/s
Drld. to 6100' & ran Schl.

SW Cores - over

SW Cores: 6051' sd, n/s
5835, 1756' sd, ashy n/s
5094, 5092' sdy sh
5044, 5037' shly sd, n/s

F. WM. CARR, ET AL
NO. 1 C. A. EGGLESTON

WILDCAT

NUECES COUNTY, TEXAS

467' N & E LNS OF
SEC. #38 RICHARD KING
FARM LOTS

3 MI. NE OF AGUA DULCE

ABND TD 6100'; 6097' BY
ELEC. LOG

ELEV. D.F. 118' EST
SPUD. 8-16-52
ABND. 8-30-52

SANDS

CASING
10-3/4" CSG. 1185'

RAN ELECTRICAL LOG

THE SPOTLIGHT 9-5-52

6

NUECES	SOUTH TEXAS	WILDCAT (MC CULLOUGH)

Well:
Loc'n: WILLIAM J. CAREY-L. E. HOOVER, #1 Heiko Groeneveld Result: DRY

2 mi NE Agua Dulce, 320-ac lse, Sec 39, Richard King Farm Lots; 660' FNL & 1850' FEL lse comprising S/2 Sec 39; approx 1500' SW Pet, Inc #1 (McCullough (Groeneveld Sd) disc).

Spud: 12-23-59 Comp: 1-3-60 Elev: (no info) TD: 4600' C/W. H. Doran
Casing: 8-5/8" 285'
Comp Info: Ran EL & took SWC's.
Tops: (no info)

Date: 1-14-60 Card No.: 17ST pm

7

SUPPLEMENT 1-28-83

API NO. 42 355 31967
COMPANY SAN PATRICIO CORP.
WELL NO. 1
LEASE Rosa Lee Moench
ELEV. 106'GL
FIELD WC
COUNTY NUECES
STATE TX
SURVEY Sec 46 Richard King Farm S/D "Agua Dulce" Rafael Garcia Grt A-120
LOCATION 467' SL 900' WL of lse
200' NL 5200' EL of Sur

DRY & ABND
(3-1/2 MI. NE of Agua Dulce)

2000' TST
WELL SUPPORT
CONTRACTOR San Patricio Drlg rig 7
STARTED 2-9-82
COMPLETED 2-19-82
T. D. 6180' Frio
CASING 8-5/8" at 1261'
PFS.
I. P.

PFS.
I. P.

COMPANY SAN PATRICIO CORP.
LEASE #1 ROSA LEE MOENCH

Drld to TD 6180' Ran IES BHC ACSL
Took sidewall cores (ATTACHED)
Ran WLT *

D & A 2-19-82

*
WLT #2 at 4367.5' rec 9100 cc wtr Res 0.91 at 75°F ISI 1377# spg rge 72-1373# spg time 8 min 30 secs FSI 1378# HY 2249# surf cbr 0 Pretest 1180#.

NUECES | SOUTH TEXAS | WILDCAT WF

Well: SAN PATRICIO CORP.
Loc'n: 1 Rosa Lee Moench (API 42-355-31967; Permit No. 148624)

Result: D&A

(18S-16E-3) 3 mi NE Agua Dulce, 160-ac lse, Agua Dulce Grt, A-120; 900 FEL & 467 FSL SW/4 Sec 46, R. King Farm Lots Subd; sc: FNW/cor Puenticitas Grt, A-111, go SW alg NWL 200, th NW @ RA 5850 to loc; sc: 1700 NE F.W. Carr, et al 1 Quebe (D&A @ TD 6100) ½ mi SE of McCullough Fld.

Spud: 2-9-82 Comp: 2-19-82 Elev: 106 Grd TD 6180 C/San Patricio Drlg Co., Rig
Casing: 8 5/8 @ 1261 w/420sx.
Comp Info: Drld to TD 6180, ran IES/ES/BHC-ACSL, took SDWL Cores, ran WLT's; TD 6180 (in Frio) D&A Comp 2-19-82. Rel Rig 2-19-82.

Petroleum Information Corporation
A Subsidiary of A. C. Nielsen Company

Date: 6-17-82 Card No. 26 ST-4 tm

CORE SERVICE INC.

CORE LAB... INC.
CORPUS CHRISTI, ... VICTORIA, ... SAN ANTONIO

Supplement 1-28-83.

COMPANY SAN PATRICIO CORPORATION
DATE ON 2/18/82
JOB NO. 8552
WELL ROSA LEE MOENCH NO. 1
DATE OFF 2/18/82
ANALYST LMM-HSJ-RDF-JBB
FIELD WILDCAT
DRILLING FLUID WATER BASE MUD
COUNTY NUECES
STATE TEXAS
TYPE CORES PERCUSSION

Sidewall Core Analysis Report

DEPTH FEET	PERM MD	POROSITY PERCENT	RESIDUAL SATURATION % BY VOLUME OIL	RESIDUAL SATURATION % BY VOLUME GAS	% PORE SPACE OIL	% PORE SPACE TOTAL WATER	PROBABLE PRODUCTION	API	GAS UNITS	RECOVERY	LITHOLOGICAL DESCRIPTION
4362	6.8	19.7	0.0	4.4	0.0	77.7	Low Perm		0	1	Vfg silty shy lmy sd, No flu
4364	0.0	18.8	0.0	3.5	0.0	81.4			0	1½	Same as above
4366	8.8	19.7	0.0	4.4	0.0	77.7	Low Perm		0	1½	Vfg silty v lmy sd, No flu
4357	16	20.2	0.0	7.7	0.0	61.9	GAS		0	1	Same as above
4368										0	Misfire
5796	2.2	18.9	0.0	3.2	0.0	83.1	Low Perm		0	½	Vfg shy v lmy sd, No flu
5796½	0.0	18.3	0.0	3.9	0.0	78.7			0	1	Frm vfg v shy v lmy sd, No flu
5797	0.0	19.0	0.0	3.0	0.0	84.2			0	1	Same as above
5797½	7.4	19.7	0.0	6.2	0.0	68.5	Low Perm		0	½	Vfg silty shy lmy sd, No flu
5798	5.0	19.0	0.0	4.7	0.0	75.3	Low Perm		2	1	Same as above
5816	4.6	19.4	0.0	3.9	0.0	79.9	Low Perm		0	1	Vfg dirty shy v lmy sd, No flu
5817	22	21.6	0.0	3.5	0.0	83.8	WATER		0	1	Vfg silty v lmy sd, No flu
5818	13	20.6	0.0	4.2	0.0	79.6	WATER		0	½	Same as above
5825	39	22.6	0.0	3.9	0.0	82.7	WATER		0	1	Same as above, Sh incls
5826	52	23.8	0.0	3.5	0.0	85.3	WATER		0	1	Vfg silty v lmy sd, No flu
5828	44	24.0	0.0	3.8	0.0	84.2	WATER		0	1	Same as above
5996	0.0	17.4	0.0	3.0	0.0	82.8			0	1	Frm vfg v shy lmy sd, No flu
5997	0.0	18.1	0.0	4.2	0.0	76.8			0	1	Same as above
5998	288	27.5	0.0	3.6	0.0	86.9	WATER		0	1	Vfg fly cln sd, No flu
5999	492	28.8	0.0	3.6	0.0	87.5	WATER		0	1	Same as above
6000	1055	31.2	0.0	4.8	0.0	84.6	WATER		2	1	Same as above
6048	18	20.2	0.0	4.5	0.0	77.7	WATER		0	½	Vfg dirty lmy sd, No flu
6049	30	21.6	0.0	3.5	0.0	83.8	WATER		2	1½	Vfg sli lmy sd, No flu
6054	7.8	19.3	0.0	2.8	0.0	85.5	Low Perm		0	½	Vfg v silty v lmy sd, No flu
6055	52	23.9	0.0	3.8	0.0	82.4	WATER		0	1	Vfg silty sd, No flu

8

NUECES	SOUTH TEXAS	KUYPERS	DO

Well: EUGENE OIL Result: OIL

Loc'n: 2 McNair (API 42-355-32402; Permit No. 265685)

(18S-18E-1) 3 mi W-NW Banquete, 366-ac lse, De Agua Dulce Sur, A-187; 467 FWL (Agua Dulce Creek); sc: 5700 FNEL Grt, 467 FNEL & 467 FWL (Agua Dulce Creek); 40-ac Tr, 1350 SW Eugene 1 (D&A @ TD 6210), 486 NW International 2-B (D&A @ TD 7500).

Spud: 2-5-85 Comp: 3-13-85 Elev: 91 Grd/KB 100 DTD: 6010/PBTD 5952 C/Stage Drlg
Casing: 8 5/8 @ 535 w/225sx, 4½ @ 5998 w/571sx; 2 3/8 tbg @ 5767.
Prod Zone: (Frio, 5900 Sd) T/Pay 5952 Prod thru Perfs 5864-5867.
IPF: 108 BOPD, 62 MCFGPD, 0 BWPD, 9/64 ck, gty 44.0, GOR 575-1, FTP 571.
Comp Info: Drld to 6010, ran DI, took SDWL Cores, ran WLT's, Perf 5864-67, IPF fr Perf 5864-67 (Frio, 5900 Sd); TD 6010, PBTD 5952, Single Oil Comp 3-13-85, (PT Comp 3-13-85), Rel Rig 2-13-85.

Petroleum Information Corporation
A Subsidiary of A. C. Nielsen Company

Date: 5-9-85 Card No. 60 ST-4

42-355-00263-01

NUECES | SOUTH TEXAS | WILDCAT (OWWO)

Well: ALLEN BURR, #1 H. Groeneveld Result: DRY

Loc'n:

3 mi NE Agua Dulce, 240-ac lse; 467' FSL & 467' FEL NW/4-Sec 46, Richard King Farm Lots; (Orig P&A @ 6500' as Miami Opr's Comm #1).

Spud: 7-25-60 Comp: 8-7-60 Elev: 104' TD: 5737' C/Rhodes & Hicks
Casing: 10-3/4" 1253'; 2-7/8" 5729'
Comp Info: clnd out old hole to 1900' & encountered old csg string in hole; drld down alongside old string to 5737'; ran EL & attempted DST 5723-1/2-26' in Lwr Frio (T/sd 5712'); stuck pkr & lost test but appeared to rec O & GCM; sd tite, BHPF 170-80#; set 2-7/8" 5729'; Perf 5730-33'; tstd oil& SW; sqzd & Reperf sly higher in same sd; neg test because of channel job; PB & Perf zone @ 5000'; tstd SW; P&A.
Tops: Not reported

Ira Rinehart's OIL REPORTS

Date: 3-16-61 Card No.: 22 ST bp

NUECES | SOUTH TEXAS | WILDCAT

Well: ALLEN BURR, #2 H. Groeneveld Result: DRY

Loc'n:

3 mi NE Agua Dulce, 240-ac lse, Sec 46, Richard King Farm Lots; 800' FSL & 1200' FEL of NW/4 Sec 46; 1025' NW #1 dry hole.

Spud: 4-15-61 Comp: 4-24-61 Elev: 113' KB/104' Grd TD: 5745' C/Rhodes & Hicks
Casing: 8-5/8" 210'
Comp Info: ran EL; DST w/straddle pkrs 5698-5705', op 22-1/2 min, 1/4" chs, rec 60' OCM, 1600' SW; P&A 4-25-61.
Tops: Not reported

Ira Rinehart's OIL REPORTS

Date: 5-4-61 Card No.: 18 ST bp

DRY

Rinehart's BASIC SCOUTING SERVICE **WILDCAT • Completion**

State Texas-4 County Nueces Field Wildcat (WF)

S/T/R Sur Agua Dulce Grt, A-120 Map No.

Operator BILL I. BURCH

P. O. Box 2287, Corpus Christi 78403

Well No. 1 Well Name FRED QUEBE API #42-355-30127

Location (18S-18E-3) 4 mi NE Agua Dulce, 170-ac lse, Agua Dulce Grt, A-120; Sec 46, Richard King Farm Lots; 467' FNL & 1000' FEL of SW/4 Sec 46; Sc: 2100' FSL & 1650' FWL Sec 46; Sc: 700' SE of Miami #1 Quebe, DH @ 5918', 1050' SW of Burr #1 Groenveld, DH @ 5737' & 1500' W of Harper & Hefte #1 Hefte, GW off extreme W/side of Agua Dulce Fld. PD 6400'

Spud Date 3-10-70 Elevation: Grd 111.54' DF KB

Contractor Padre Drlg. Co. LS Elev Df

Loc. Issued: 3-10-70 Ticket Issued: 4-14-70

Completion Date 3-16-70 TD 6012' PBTD OTD

Casing 8-5/8" @ 400' (+ -)

Producing Zone T/pay OH Perf.

IP

Formation Record

Comp Info:

3-26-70: C/Padre Drlg. Co.;
Spud 3-10-70;
8-5/8" @ 400' (+ -);
Drld to TD 6012' (no ML); Ran IE/L (only);
No SWCs; No WLTs;
TD 6012', D&A 3-16-70.

STATE Texas-4 COUNTY Nueces S/T/R OPERATOR Bill I. Burch

NUECES SOUTH TEXAS WILDCAT

Well: BILL I. BURCH

Loc'n: #1 Fred Quebe (API#42-355-30127)

Result: DRY WF

4 mi NE Agua Dulce, 170-ac lse, Agua Dulce Grt., A-120; Sec 46, Richard King Farm Lots; 467' FNL & 1000' FEL of SW/4 Sec 46; Sc: 2100' FSL & 1650' FWL Sec 46; Sc: 700' SE of Miami #1 Quebe, DH @ 5918', 1050' SW of Burr #1 Groenveld, DH @ 5737' & 1500' W of Harper & Hefte #1 Hefte, GW off extreme W/side of Agua Dulce Fld.

Spud: 3-10-70 Comp: 3-16-70 Elev: 111.54' Grd TD: 6012' C/Padre Drlg. Co.
Casing: 8-5/8" @ 400' (+-).
Comp Info: Drld to TD 6012' (no ML); Ran IE/L (only); No SWCs; No WLTs; TD 6012', D&A 3-16-70.

Date: 4-17-70 Card No.: 14 ST-4 pk

NUECES SOUTH TEXAS BAILEY,EAST D

FREEMAN CHET
1 FLATO (API 42-355-32849) (PERMIT #392402)

STATUS: TA

LOC'N: (18S-17E-4); 2 MI NE AGUA DULCE, TX; 320 AC LSE; SEC 38; SUR/EQUIV. RICHARD KING FARM LOTS, A-120; SC FR NW/COR I&GN RR A-173 GO N ALG EXT WL 9100 TH W, @ RA 400 TO LOC, 1721 FNL 2400 FEL LSE, OPER PLAT SHOWS 1721 FNL 2400 FEL SEC 38 **(VERTICAL)** GEOL: HAL BASHAM

SPUD: 10/10/91 **COMP:** 12/18/92 **EL:** 102 GR **DTD:** 6450 (FRIO) **CONTR:** ARROW DRLG **RIG** #3

CSG/LNR/TBG: 4 1/2 @ 6450;

RESULT: , TEMP ABND NO CORES OR TESTS

COMP INFO: LOG TYPES: DENL 6450, DI 6450, GRL 6450, NEUT 6450; RAN LOGS (COMB DI-DENL-NEUT-GRL) @ 6450; **DRLG COMMENTS:** ONSITEGEOLOGIST - HAL BASHAM **RIG REL:** 10/18/91

DATE 12/29/92**CARD #00009-S TEX**

NUECES SOUTH TEXAS BAILEY,EAST D

FREEMAN CHET
2 FLATO (API 42-355-32863) (PERMIT #398747)

STATUS: D&A

LOC'N: (18S-17E-2); 2 MI NE AQUA DULCE, TX; 320 AC LSE; SEC 38; SUR/EQUIV GARCIA RAFAEL, A-120; 1650 FNL 1200 FEL GRT; 1650 FNL 1200 FEL LSE, ALSO SCALES 9420 FSL 14250 FWL GRT, **(VERTICAL)**

SPUD: 08/12/92 **COMP:** 08/21/92 **EL:** 118 KB 108 GR **DTD:** 6210 (FRIO) **CONTR:** ARROW DRLG **RIG** #3

CSG/LNR/TBG: 8 5/8 @ 600;

RESULT: D&A NO SDWL CORES OR WLTS

COMP INFO: RIG REL: 08/21/92

DATE 12/29/92**CARD #00010-S TEX**

NUECES SOUTH TEXAS AGUE DULCE

Well: HARPER & HEFTE, #1 Mary Tom Hefte

Result: GAS

Loc'n:

3½ mi W Banquete, 160-ac lse, Agua Dulce Grt, A-120; 467' FNL & 467' FWL of 160-ac lse comprising SE/4 Sec 46, Richard King Farm Lots, or sc: 2150' FEL & 2150' FSL lse & Sec 46; sc: FNW/cor of Puenticitas Grt, go NE alg (ext'd) NWL 1800', th NW@RA 4100' to loc.

Spud: 12-1-65 Comp: 12-23-65 Elev: 100.0' Grd TD: 6475' C/ Afroma Drlg Co.
Casing: 8 5/8" 358'; 2 7/8" 4619'
Prod Zone: (4500' Sd) T/Pay (NR) Prod thru Perf 4513-18'
IPF: AOF 3,200,000 CFGPD, SICP 1535#, grav 64, GOR 260,000-1, BHSIP 1535#
Comp Info: drld to TD 6475'; ran IE/L (no report on SWCs or tests); Perf 4513-18'; Perfs 4513-18' F/779,000 CFGPD, 10/64" ch, CP 1420#, Single Gas, Comp 12-23-65. 4 pt test: 10/64" ch, TP 1420#, F/779 MCF, BHFP 1420#; 12/64" ch, CP 1345#, F/1057 MCF, BHFP 1345#; 13/64" ch, CP 1305#, F/1222 MCF, BHFP 1305#. 13/64" ch, CP 1255#, F/1372 MCF, BHFP 1255#. Formation Record: Rotary space 0-10'; Clay sh 10-35'; Sh & sd 35-2797'; Sh & sdy li 2797-2920'; Sh & sdy sh 2920-3708', w/hd sd strks; Sdy sh 3708-4192'; Sd 4192-4240'; Hd sd 4240-4308'; Sh & sd 4308-5024'; Sh & sdy sh 5024-6010'; sd 6010-6025'; sh 6025-6049'; Sdy sh 6089-6370'; Sd 6370-6378'; Sh 6378-6475', TD. PT Comp: 12-23-65.
Outlet: South Texas Corp.

Date: 1-24-66 Card No.: 17 ST-4 kh

NUECES SOUTH TEXAS KUYPERS D

Well: HARPER & HEFTE

Result: D&A

Loc'n: 3 Hefte, Mary T. (API 42-355-32428; Permit No. 270355)

(18S-17E-1) 3 mi W-W Banquete, 344-ac lse, Agua Dulce Grt, A-120; 467 FNL & 467 FNEL (Auga Dulce Crk) lse & Sec 46, R. King Farm Lots; sc: Fr NW/cor Puentecitas Grt, A-111, go NE alg ext'd NWL 4500, th NW @ RA 3900 to loc.

Spud: 4-21-85 Comp: 4-27-85 Elev: 94 Grd DTD: 6500 C/Corpus Christi Drlg.
Casing: 8 5/8 @ 1198.
Comp Info: Drld to 6500, ran DI/DENL/NEUT, no SDWL Cores, no WLT's; TD 6500 (Frio), D&A 4-27-85, Rel Rig 4-27-85.

Date: 5-23-85 Card No. 14 ST-4

NUECES (REPUB) SOUTH TEXAS AGUA DULCE WPD

Well: HARPER & HEFTE
Loc'n: 1 Pyle (API 42-355-32522; Permit No. 304785)

Result: OIL (NEW POOL)

(18S-18E-1) 3.5 mi W-NW Banquete, 160-ac lse, Agua Dulce Grt, A-120; sc: FNW/cor Puentecitas Grt, A-111, go NE alg (ext'd) NWL 4200 th NW @ RA 5400 to loc, 467 FNL & 467 FEL lse & NW/4 Sec 46, R. King Farm Lots; sc: 1450 W Harper-Hefte 3 Hefte, (D&A @ TD 6500); .5 mi SW Kuypers Fld; Opers shows San Antonio De Agua Dulce Benito Lopez Jean Grt, A-187.

Spud: 8-16-86 Comp: 9-8-86 Elev: 108 KB DTD: 6400/PBTD 5990 C/Corpus Christi Drlg, Rig 6.
Casing: 8 5/8 @ 648 w/235sx, $4\frac{1}{2}$ @ 5990 w/449sx; 2 3/8 tbg @ 5728.
Prod Zone: (Frio, Pyle 5800 Sd) T/Pay 5802 Prod thru Perfs 5802-5806.
IPF: 52 BOPD, 40 MCFGPD, 1 BWPD, 6/64 ck, gty 43, GOR 773-1, FTP 855.
Comp Info: Drld to 6400, ran DENL/DI/GRL/NEUT 648-6400, took SDWL Cores (no details), ran WLT's (no details), Perfs 5802-5806 (Frio, Pyle 5800 Sd); TD 6400 (Frio), PBTD 5990, Comp Oil Well 9-8-86, (PT Comp 9-9-86), (Frio Disc - New Field), (Repub to correct field fr Unnamed, final class, add Resv & add Disc Note, Replaces card 12 dtd 9-25-86), Rel Rig 9-1-86.
EL/Tops: Catahoula 3540; Local Calls: Comstock Sc 4210.

CORE SERVICE INC.

CORE SERVICE, INC.
"Core Analysis"
CORPUS CHRISTI, HEBBRONVILLE,
VICTORIA, CARRIZO SPRINGS,
COTULLA, SAN ANTONIO

COMPANY HARPER HEFTE, INC. DATE ON 8/25/86 JOB NO. 10606-N

WELL PYLE NO. 1 DATE OFF 8/26/86 ANALYST MAR-HSJ

FIELD WILDCAT DRILLING FLUID WATER BASE MUD

COUNTY NUECES STATE TEXAS TYPE CORES PERCUSSION

Sidewall Core Analysis Report

DEPTH FEET	PERM. MD.	POROSITY PERCENT	RESIDUAL SATURATION % BY VOLUME OIL	% BY VOLUME GAS	% PORE SPACE OIL	% PORE SPACE TOTAL WATER	PROBABLE PRODUCTION	°API	GAS UNITS	RECOVERY INCHES	LITHOLOGICAL DESCRIPTION
5148	52	24.2	0.0	4.9	0.0	79.8	WATER		2	1	Fg dirty lmy sd, No flu
5486	6.7	19.9	0.0	5.7	0.0	71.4	Low Perm		0	1	Vfg shy lmy sd, No flu
5487	7.6	20.2	0.0	6.4	0.0	68.3	Low Perm		0	1	Same as above
5675	5.1	18.8	0.0	4.9	0.0	73.9	Low Perm		0	½	Vfg silty v shy lmy sd, No flu
5676										0	No Recovery
5680	9.5	19.8	0.0	6.9	0.0	65.2	Low Perm		0	1	F-Vfg silty lmy sd, Sh strks, No fl
5797	0.0	17.6	0.0	4.1	0.0	76.7			0	1	Frm vfg v shy v lmy sd, No flu
5802	102	25.8	0.4	10.1	1.6	59.3	COND.		10	¼	Vfg silty lmy sd, Ft flu
5803	136	26.9	0.4	10.9	1.5	58.0	COND.		26	½	Same as above, Ft blu flu
5804	202	29.3	4.3	9.4	14.7	53.2	OIL	34	140	½	Same as above
5805	385	28.5	6.4	8.4	22.4	48.1	OIL		260	1	Same as above, Lt blu flu
5806	498	30.9	7.1	9.6	23.0	46.0	OIL		280	1	Vfg cln sd, Lt blu flu
5807	417	30.4	7.2	8.6	23.7	48.0	OIL	34	280	1	Same as above
5808	330	29.7	6.2	9.4	20.9	47.5	OIL		300	1	Same as above
5845	5.9	19.4	0.0	5.9	0.0	69.6	Low Perm		0	1	F-Vfg silty shy sd, No flu
5846	22	21.7	0.0	7.2	0.0	66.8	COND.		0	¼	Vfg v silty sd, No flu
5847	7.0	20.4	0.0	4.5	0.0	77.9	Low Perm		4	1¼	F-Vfg silty shy lmy sd, No flu
5849	62	22.6	0.8	7.9	3.5	61.5	COND.		120	1	F-Vfg silty lmy sd, Sh strks, Blu
5860	175	29.8	5.9	7.0	19.8	56.7	OIL	34	98	1	Vfg fly cln sd, Lt blu flu
5862	301	30.6	8.1	7.6	26.4	48.7	OIL		220	1	Same as above
5885	72	24.9	0.3	9.4	1.2	61.0	COND.		6	1	F-Vfg silty lmy sd, Sh strks, Ft f
5886	81	24.7	0.2	9.0	0.8	62.8	COND.		6	1	Same as above
5887½	226	28.2	0.2	10.2	0.7	63.1	COND.		2	1	Fg fly cln sd, Ft flu
5891	194	27.7	0.1	10.0	0.4	63.5	COND.		4	1	Same as above

International O&G - IOGC McNair #1 Cores

DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP. DATE : 11-JUN-82 FILE NO : 2205-10996
I.O.G.C. MCNAIR NO.1 FORMATION : ANALYSTS : SK
KUYPERS FIELD (WCT) DRLG. FLUID: WATER BASE MUD LABORATORY: CORPUS CHRISTI
NUECES COUNTY, TEXAS CORES : SCHLUMBERGER

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROB PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	DESCRIPTION
1.2	1912.0								0		SHALE BF SDY LMY
1.2	1914.0	6.3	23.4	0.0	83.9	(6)	0.0	3.8	0	73	SD FG VSHY LMY NO FLU
1.3	1918.0	21.	25.8	0.0	85.8	WTR	0.0	3.7	0	67	SD FG SHY W/SH PBL LMY NO FLU
1.0	1922.0	842.	30.4	0.0	89.6	WTR	0.0	3.1	0	36	SD MG SLTY SLMY NO FLU
0.5	5061.0	1.6	22.2	0.0	78.7	(6)	0.0	4.7	0	75	SD VFG VSLTY VSHY NO FLU
1.3	5162.0	26.	27.3	0.0	81.1	WTR	0.0	5.2	0	66	SD VF-FG SSHY LMY NO FLU
1.3	5733.0	3.5	23.1	0.0	83.1	(6)	0.0	3.9	0	74	SD VF-FG SHY LMY NO FLU
1.2	5735.0	<0.1	16.3	0.0	86.1		0.0	2.3	0		SD VF-FG VSHY HRD NO FLU
1.2	5737.0	18.	22.8	0.0	80.2	WTR	0.0	4.5	0	65	SD VF-FG SLTY SSHY SPK FLU
1.0	5739.0	6.4	21.2	0.0	77.9	(6)	0.0	4.7	0	71	SD VF-FG SLTY SSHY SPK FLU
1.2	5900.0	9.7	23.4	10.1	64.6	(8)	2.4	5.9	44	71	SD VF-FG SLTY SSHY MOT YL FLU
0.7	5902.0	75.	27.9	20.8	51.8	OIL	5.8	7.7	98	57	SD VF-FG SLTY 53'API EV YL FLU
1.2	5904.0	2.6	21.9	0.0	80.9	(6)	0.0	4.2	0	75	SD VFG SLTY SSHY SPT YL FLU
0.9	5906.0	113.	28.5	23.3	50.0	OIL	6.7	7.6	56	53	SD VF-FG SLTY EV YL FLU
0.7	5908.0	44.	25.1	17.6	50.6	OIL	4.4	8.0	200	59	SD VF-FG SLTY EV YL FLU
1.2	5910.0	274.	28.9	22.6	55.3	OIL	6.5	6.4	140	43	SD FG SLTY 68'API EV YL FLU
1.2	5912.0	103.	27.0	18.4	58.5	OIL	5.0	6.2	84	52	SD VF-FG SLTY EV YL FLU
1.2	5914.0	54.	28.4	16.1	60.0	OIL	4.6	6.8	44	60	SD VF-FG SLTY EV YL FLU
1.0	5916.0	31.	25.2	21.5	47.4	OIL	5.4	7.8	130	63	SD VFG SLTY EV YL FLU
1.0	5949.0	10.	23.0	0.0	71.4	COND	0.0	6.6	0	70	SD VFG SLTY SSHY LMY MOT YL FLU
1.3	5951.0	104.	26.5	0.0	83.9	WTR	0.0	4.3	0	52	SD VFG SLTY NO FLU
1.3	5956.0	40.	23.1	0.0	86.8	WTR	0.0	3.0	0	58	SD VFG SLTY NO FLU
1.2	5964.0	54.	26.3	0.0	84.3	WTR	0.0	4.1	0	58	SD VFG SLTY LIG/FRAG NO FLU

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP. DATE : 11-JUN-82 FILE NO : 2205-10996
I.O.G.C. MCNAIR NO.1 FORMATION : ANALYSTS : SK

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROB PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	DESCRIPTION
1.1	6373.0	<0.1	18.7	0.0	81.2		0.0	3.5	0		SD VFG VSLTY VSHY LMY NO FLU
1.3	6375.0	1.6	22.0	0.0	75.8	(6)	0.0	5.3	0	75	SD VFG SHY FRM NO FLU
1.2	6377.0	14.	23.8	0.0	78.8	WTR	0.0	5.0	0	68	SD VFG SSHY LMY NO FLU
1.2	6486.0	1.7	21.2	0.0	82.0	(6)	0.0	3.8	0	75	SD VFG SHY NO FLU
1.2	6488.0	1.2	19.2	0.0	78.5	(6)	0.0	4.1	15	73	SD VFG SHY LMY W/CONC STK BT YL FLU
1.3	6508.0	13.	25.0	0.0	82.4	WTR	0.0	4.4	0	70	SD VFG SSHY NO FLU
1.2	6510.0	11.	25.5	0.0	82.2	WTR	0.0	4.5	0	72	SD VFG SSHY NO FLU
1.2	6511.0	1.2	22.1	0.0	77.9	(6)	0.0	4.9	0	75	SD VFG SHY VLMY NO FLU

(6) LOW PERMEABILITY
(8) OIL - LOW PERMEABILITY

(*) PERMEABILITY VALUES FOR PERCUSSION TYPE SIDEWALL CORES DETERMINED EMPIRICALLY.

NOTE: CRIT WTR% IS AN ESTIMATE OF THE MAXIMUM WATER EACH SAMPLE COULD CONTAIN IN THE FORMATION IF IT IS HYDROCARBON PRODUCTIVE. IT IS SOLELY DEPENDENT UPON THE PERMEABILITY AND POROSITY AND HAS NO RELATIONSHIP TO THE WATER % PORE MEASURED IN THE SAMPLE. IN PRODUCTIVE ZONES THE WATER SATURATION CALCULATED FROM THE INDUCTION LOG TRUE RESISTIVITY SHOULD BE LESS THAN THE CRITICAL WATER.

International O&G - McNair “B” #1 Cores

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP.
MCNAIR 'B' NO.1
KUYPERS FIELD
NUECES COUNTY, TEXAS

DATE : 18-AUG-83
FORMATION :
DRLG. FLUID: WATER BASE MUD
LOCATION :

FILE NO : 2305-11342
LABORATORY: CORPUS CHRISTI
ANALYSTS : DB
ELEVATION :

CONVENTIONAL CORE ANALYSIS

CORE NO.1 5865.0' - 5905.0' CUT 40.0' REC 40.0'

SMP NO	DEPTH	PERM MD HORZ(KA)	POR %	OIL% PORE	WTR% PORE	PROB PROD	GAS% BULK	DESCRIPTION
	5865.0-73.2							SHALE GRN SSDY SLMY SMIC
	5873.2-73.8							MDST GRY LMY HD
	5873.8-78.4							SHALE GRN SSDY SLMY SMIC
1	5878.4-79.0	0.09	5.8	0.4	30.6	(6)	4.0	SD VFG SLTY SH MOT LMY MIC MOT B-W FLU
2	5879.0-80.0	16.	23.3	7.4	55.6	COND	8.6	SD F-VFG SLTY LMY MIC SH LAM PA B-W FLU
3	5880.0-81.0	269.	28.0	6.0	63.2	COND	8.6	SD F-VFG SLTY SHY MIC PA B-W FLU
4	5881.0-82.0	600.	31.9	6.8	51.7	COND	13.2	SD F-VFG SLMY SMIC SH STKS PA B-W FLU
5	5882.0-83.0	309.	30.8	7.8	42.3	COND	15.3	SD F-VFG SLMY SMIC B-W FLU 55'API
6	5883.0-84.0	387.	30.2	8.0	39.9	COND	15.8	SD F-VFG SLTY SMIC SH STKS B-W FLU
7	5884.0-85.0	912.	27.5	8.3	46.7	COND	12.9	SD F-VFG SLTY SMIC PA B-W FLU
8	5885.0-86.0	45.	21.8	4.1	61.3	COND	7.5	SD F-VFG SLTY SHY SLMY MIC B-W FLU
9	5886.0-87.0	284.	30.3	8.0	52.0	COND	12.1	SD F-VFG SLTY LMY SMIC SH STKS PA B-W FLU
10	5887.0-88.0	6.83	24.5	0.9	62.9	COND	8.9	SD F-VFG SLTY SSHY SMIC PA B-W FLU
11	5888.0-89.0	33.	27.3	3.0	46.5	COND	13.8	SD F-VFG SLTY SMIC PA B-W FLU
12	5889.0-90.0	164.	28.0	3.0	53.2	COND	12.3	SD F-VFG SLTY SSHY SMIC PA B-W FLU
13	5890.0-91.0	167.	28.7	3.6	50.1	COND	13.3	SD F-VFG SLTY SSHY SMIC PA B-W FLU
14	5891.0-92.0	215.	28.0	1.9	66.8	COND	8.8	SD F-VFG SSHY SMIC PA B-W FLU
15	5892.0-93.0	76.	27.6	7.7	65.6	COND	7.4	SD F-VFG SSLTY SSHY SPTS YL FLU
16	5893.0-94.0	884.	26.8	2.0	60.0	COND	10.2	SD F-VFG SLTY SSHY SPYR STKS B-W FLU
17	5894.0-95.0	659.	24.6	0.9	70.9	COND	6.9	SD F-VFG SLTY SMIC SH LAM SPKS YL FLU
18	5895.0-96.0	54.	21.5	1.0	72.7	COND	5.6	SD VF-FG SSHY MIC SPYR SH LAMS MOT B-W FLU
19	5896.0-97.0	209.	29.8	6.1	57.2	COND	10.9	SD VF-FG SLTY SMIC SH STKS B-W FLU 55'API
20	5897.0-98.0	182.	25.5	7.6	58.9	COND	8.6	SD VF-FG SSHY SMIC SH INCL PA B-W FLU
21	5898.0-99.0	464.	35.0	8.9	57.9	COND	11.6	SD VFG SSHY SMIC PA B-W FLU
22	5899.0-00.0	16.	22.5	1.0	67.5	COND	7.1	SD VFG SHY SLMY SMIC SPKS YL FLU

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP.
MCNAIR 'B' NO.1

DATE : 18-AUG-83
FORMATION :

FILE NO : 2305-11342
LABORATORY: CORPUS CHRISTI

CONVENTIONAL CORE ANALYSIS

SMP NO	DEPTH	PERM MD HORZ(KA)	POR %	OIL% PORE	WTR% PORE	PROB PROD	GAS% BULK	DESCRIPTION
23	5900.0-01.0	17.	24.2	4.5	62.4	COND	8.0	SD VFG SLTY SLMY MIC STKS B-W FLU 55'API
24	5901.0-02.0	5.44	23.5	3.7	60.7	COND	8.4	SD VFG SHY SMIC SPRSS MOT B-W FLU
25	5902.0-03.2	1.30	17.6	1.3	49.0	COND	8.7	SD VFG SHY SLMY SMIC SLIG SPKS YL FLU
	5903.2-05.0							SHALE GRN SLMY SMIC

(6) DENOTES LOW PERMEABILITY.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP.
MCNAIR 'B' NO.1
KUYPERS FIELD
NUECES COUNTY, TEXAS

DATE : 19-AUG-83
FORMATION :
DRLG. FLUID: WATER BASE MUD

FILE NO : 2305-11342
ANALYSTS : RS
LABORATORY: CORPUS CHRISTI
CORES : SCHLUMBERGER

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROB PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	%SLT CLAY	DESCRIPTION
1.3	4794.0								0			SHALE GRN SSLTY LMY
1.1	4804.0	1.6	19.1	0.0	79.0	(6)	0.0	4.0	3	72	94	SD VFG SLTY VSHY VLMY MIN FLU
0.5	4842.0	11.	22.4	0.0	68.1	GAS	0.0	7.1	400	68	87	SD VFG VSLTY SHY SLMY NO FLU
0.8	5164.0	12.	22.0	0.0	74.8	WTR	0.0	5.5	0	67	76	SD VFG SLTY SHY LMY NO FLU
1.0	5226.0	2.7	20.5	2.5	80.8	(6)	0.5	3.4	0	74	86	SD VFG SLTY VSHY SLMY NO FLU
1.1	5282.0	5.6	22.8	1.2	69.6	COND	0.3	6.7	15	73	65	SD VFG SLTY VSHY NO FLU
1.3	5312.0								0			SHALE BRN LMY
1.4	5391.0								0			SHALE GRY SLTY LMY
0.5	5526.0								0			MUDCAKE & CUTTINGS
0.6	5543.0	<0.1	17.0	0.0	72.6		0.0	4.6	0	75	94	SD VFG VSHY LMY W/LAMS NO FLU
1.0	5827.0								0			SHALE GRN SLTY
1.3	5844.0								0			SHALE GRN SLTY SLMY
0.7	5845.0	7.4	21.0	6.6	33.6	COND	1.4	8.4	16	70	60	SD VF-FG SLTY VSHY SPTS YL FLU
1.0	5882.0	187.	28.5	10.9	60.8	COND	3.1	8.1	175	46	39	SD VF-FG SSLTY SSHY MOT B-W FLU 59'API

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP.
MCNAIR 'B' NO.1

DATE : 19-AUG-83
FORMATION :

FILE NO : 2305-11342
ANALYSTS : RS

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROB PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	%SLT CLAY	DESCRIPTION
1.3	5895.0	66.	24.5	5.6	68.0	COND	1.4	6.5	180	54	61	SD VFG SLTY SHY STKS B-W FLU
1.1	5912.0	5.2	21.5	0.8	69.0	COND	0.2	6.5	0	72	69	SD VFG SLTY SHY LMY NO FLU
1.1	5914.0	2.0	19.6	0.0	83.8	(6)	0.0	3.2	0	73	65	SD VFG SLTY SHY SLMY LIG NO FLU
1.0	5916.0	7.1	22.2	6.4	64.7	COND	1.4	6.4	155	72	68	SD VFG SLTY SHY LMY MOT B-W FLU 51'API
1.1	5918.0	1.7	20.8	0.6	74.2	(6)	0.1	5.2	30	74	84	SD VFG SLTY VSHY LMY STK B-W FLU
0.8	5920.0	2.2	20.1	0.0	68.1	(6)	0.0	6.4	5	73	75	SD VFG SLTY VSHY LMY NO FLU
1.2	5922.0	3.6	20.5	0.0	82.9	(6)	0.0	3.5	0	73	59	SD VFG SLTY SHY SLMY NO FLU
1.1	5924.0	4.7	20.2	0.6	81.8	(6)	0.1	3.5	0	71	63	SD VFG SSLTY SHY SLMY NO FLU
1.1	5926.0	4.3	19.8	0.0	82.6	(6)	0.0	3.5	0	71	56	SD VFG SLTY SHY SLMY NO FLU
1.0	5928.0	9.0	22.7	0.0	80.7	(4)	0.0	4.4	0	70	62	SD VFG SLTY SSHY LMY NO FLU
0.5	5930.0	13.	22.5	9.8	57.1	COND	2.2	7.4	115	67	63	SD VFG SLTY SHY LMY MOT B-W FLU
0.0	5932.0											NO RECOVERY
1.2	5934.0	98.	27.3	0.6	83.6	WTR	0.2	4.3	0	53	41	SD VFG SSLTY SSHY NO FLU
1.1	5936.0	46.	25.2	0.0	84.6	WTR	0.0	3.9	0	59	55	SD VFG SSLTY SHY LIG NO FLU
1.3	5938.0	156.	29.6	0.0	83.6	WTR	0.0	4.9	0	50	49	SD VFG SSLTY SSHY NO FLU
1.1	5940.0	196.	29.2	0.0	86.4	WTR	0.0	4.0	0	46	50	SD VFG SSLTY SSHY NO FLU
1.3	5942.0	48.	24.9	0.9	77.8	WTR	0.2	5.3	0	58	43	SD VFG SSLTY SHY LIG NO FLU
0.3	5944.0	0.5	19.7	0.0	77.7	(6)	0.0	4.4	0	74	85	SD VFG SLTY SSHY VLMY MIN FLU

(4) CORE CONTAMINATED BY DRILLING FLUID
(6) LOW PERMEABILITY

(*) PERMEABILITY VALUES FOR PERCUSSION TYPE SIDEWALL CORES DETERMINED EMPIRICALLY.

NOTE: CRIT WTR% IS AN ESTIMATE OF THE MAXIMUM WATER EACH SAMPLE COULD CONTAIN IN THE FORMATION IF IT IS HYDROCARBON PRODUCTIVE. IT IS SOLELY DEPENDENT UPON THE PERMEABILITY AND POROSITY AND HAS NO RELATIONSHIP TO THE WATER % PORE MEASURED IN THE SAMPLE. IN PRODUCTIVE ZONES THE WATER SATURATION CALCULATED FROM THE INDUCTION LOG TRUE RESISTIVITY SHOULD BE LESS THAN THE CRITICAL WATER.

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International O&G - McNair “B” #2 Cores

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP.
MCNAIR "B" NO. 2
KUYPERS FIELD
NUECES COUNTY, TEXAS

DATE : 17-FEB-84
FORMATION :
DRLG. FLUID: WATER BASE MUD

FILE NO : 2305-11547
ANALYSTS : BLG
LABORATORY: CORPUS CHRISTI
CORES : SCHLUMBERGER

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROB PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	%SLT CLAY	DESCRIPTION
0.5	4850.0	1.6	16.8	0.0	79.3	(6)	0.0	3.5	0	68	88	SD VFG SLTY VLMY NO FLU
1.4	5865.0	57.	24.6	8.4	56.3	OIL	2.1	8.7	62	56	60	SD F-VFG LMY SH STKS STKS YL FLU
0.8	5866.0	975.	30.0	20.1	55.5	OIL	6.0	7.3	175	35	58	SD F-VFG SLMY EV YL FLU 52'API
0.8	5867.0	941.	31.0	22.6	36.1	OIL	7.0	12.8	200	36	55	SD FG SLTY SLMY EV YL FLU 52'API
0.5	5868.0	583.	29.1	13.5	47.7	OIL	3.9	11.3	150	37	58	SD F-VFG SLTY LMY EV YL FLU
1.0	5869.0	28.	22.6	11.4	58.9	OIL	2.6	6.7	75	61	58	SD F-VFG SLTY LMY STKS YL FLU
1.2	5870.0								0			SHALE GRY FRM
1.2	5912.0	2.0	17.2	0.0	77.4	(6)	0.0	3.9	0	69	50	SD VFG SLTY VSHY LMY NO FLU
0.3	5918.0	908.	31.0	0.0	80.5	WTR	0.0	6.0	0	36	36	SD VFG SLTY ASHY NO FLU
0.3	5920.0	228.	29.3	0.0	87.6	WTR	0.0	3.6	0	45	37	SD VFG SLTY ASHY NO FLU
1.2	5938.0	4.2	19.7	0.0	75.5	(6)	0.0	4.8	0	71	58	SD VFG SLTY SHY LMY NO FLU
1.1	5946.0	18.	22.2	0.0	82.3	WTR	0.0	3.9	0	64	54	SD VFG SLTY SHY LMY NO FLU
1.1	5950.0	20.	25.2	0.0	84.9	WTR	0.0	3.8	0	67	47	SD VFG SLTY SHY LMY NO FLU
1.2	5955.0	35.	23.5	0.0	86.7	WTR	0.0	3.1	0	61	39	SD VFG SLTY SHY LMY NO FLU
1.1	5964.0	30.	22.9	0.0	80.6	WTR	0.0	4.4	0	61	39	SD VFG SLTY SSHY LMY NO FLU
0.5	5990.0	110.	25.4	0.0	90.1	WTR	0.0	2.5	0	50	53	SD VFG SLTY ASHY LMY NO FLU
1.2	6040.0	147.	26.3	0.0	80.1	WTR	0.0	5.2	1	48	47	SD F-MG SLTY SSHY NO FLU
0.6	6374.0	3.0	18.8	0.0	81.3	(6)	0.0	3.5	0	71	76	SD VFG SLTY VLMY FRM NO FLU
1.1	6485.0	4.1	19.2	0.0	82.8	(6)	0.0	3.3	0	71	61	SD VFG SLTY VSHY NO FLU
0.8	6717.0	3.0	18.1	0.0	77.9	(6)	0.0	4.0	0	70	74	SD VFG SLTY VLMY FRM NO FLU

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

INTERNATIONAL OIL & GAS CORP.
MCNAIR "B" NO. 2

DATE : 17-FEB-84
FORMATION :

FILE NO : 2305-11547
ANALYSTS : BLG

SIDE WALL CORE ANALYSIS

REC IN	DEPTH FEET	PERM MD(*)	POR %	OIL% PORE	WTR% PORE	PROB PROD	OIL% BULK	GAS% BULK	GAS DET	CRIT WTR%	%SLT CLAY	DESCRIPTION

(6) LOW PERMEABILITY

(*) PERMEABILITY VALUES FOR PERCUSSION TYPE SIDEWALL CORES DETERMINED EMPIRICALLY.

NOTE: CRIT WTR% IS AN ESTIMATE OF THE MAXIMUM WATER EACH SAMPLE COULD CONTAIN IN THE FORMATION IF IT IS HYDROCARBON PRODUCTIVE. IT IS SOLELY DEPENDENT UPON THE PERMEABILITY AND POROSITY AND HAS NO RELATIONSHIP TO THE WATER % PORE MEASURED IN THE SAMPLE. IN PRODUCTIVE ZONES THE WATER SATURATION CALCULATED FROM THE INDUCTION LOG TRUE RESISTIVITY SHOULD BE LESS THAN THE CRITICAL WATER.

POST NEW SAND

B-6

COMPANY PETROLEUM INC. ET AL NO. 1 FARM HEIKO GROENEVELD MAP POSTED

COUNTY NUECES (AGUA DULCE) STATE TEXAS ELEV. Est 119/111 LAND

LOCATION Richard King Farm Lots -Sect 39 GEO.

330 NL and 330 EL of S/2 of Sect 39-3c: 2250 SL of Sect 39 and 3600 ESE of B.Graham & Renwar #1

PAY

OIL STRING OR PROD. PERF. 5858-62

FIRST REPT. 12-10-58

T.D. 6005

PLUG BACK

SPUD 12-14-58

I.P. 14500 MCFPD OF SITP 1884 GOR 85800-1 Grav 60.4

COMP 12-30-58

CASING — PERFORATIONS	DEPTH — FORMATION AND CONTENT TESTS: D.S.T., SHOT, OR ACIDIZED
10 3/4 @ 336	Ø 3000 Inst Monarch Mud logger
$4\frac{1}{2}$ @ 5935	Ø TD 6005 Atlas Log No SWC
	13"AFT $5867\frac{1}{2}$ 1/64 Ck 6 gal cont
	Rec 107.97 CFG ≠ 20 CC cond, 100 CC cond
	200/2400
	~~AFT 5882- 1/64 6 gal container Rec Lower .02 CCG 30 CC cond~~
	~~18900 CCW Upper 3.44 CFG 3000 CCW-SP MR/2350~~
	AFT 5872- was dry
	Pf 5858-62 W/24
	Flod Est 14500 MCFGPD OF ≠ 13.3 BCPM Gr 60.7 SITP 1830
	16/64 1633# 2580 MCFGPD
	12/64 1780 1562
ELEC. LOG SURVEY	~~9/64 1821 884~~
	~~8/64 1830 694~~

NUECES SOUTH TEXAS AGUA DULCE (5900' SD)

Well: PETROLEUM, INC., #1 Groeneveld Result: NEW OIL PAY

Loc'n: 5 mi W Banquete, 320-ac lse, Richard King Farm Lots, Sec 39; 330' FEL (Rd) lse & Sec, so: 2310' FSL (Rd) lse & Sec.

ORIG COMP:

Spud: 12-14-58 Comp: 12-28-58 Elev: 110' TD: 6000' C/R&B Well Service.

Casing: 10-3/4" 336'/165sx; $4\frac{1}{2}$"5935'; 2-3/8"5806'.

Prod Zone: (Frio) Prod thru perfs: 5858-62'.

IPF: ACF 14,500,000 CFGPD, SITP 1884#, grav 60.4, GLR 85,800-1.

Comp Info: (no info).

Tops: Pay 5858'.

RETEST:

Spud: (no info) Comp: 4-22-59 Elev: 110' TD: 6000'.

Casing: 10-3/4" 336'; $4\frac{1}{2}$"5935'; 2-3/8"5806'.

Prod Zone: (5900' Frio) Prod thru perfs: 50/5858-62'.

IPF: 29.59 BCPD + 82% wtr, 12/64" ch, TP 225#, grav 44.7, GOR 111-1.

Comp Info: 4 pt gge: 16/64" ch, TP 1633#, F/2,580,000 CFGPD; 12/64" ch, TP 1780#, F/1,562,000 CFGPD; 9/64" ch, TP 1820#, F/884,000 CFGPD; 8/64" ch, TP 1830#, F/694,000 CFGPD; (Orig completed as New Gas-Dist Disc-Groeneveld Fld, retested as New Oil Pay, replaces card #13, dtd 1-15-59).

Tops: Pay 5858'. P L Conn; Southern.

Date: 4-30-59 Card No.: 17 ST em

NUECES SOUTH TEXAS AGUA DULCE D

Well: SOUTHERN ROYALTY
1 Moench (API 42-355-32391; Permit No. 259577) Result: D&A

Loc'n:

(18S-18E-3) 3½ mi NE Agua Dulce, 160-ac lse, Agua Dulce Grt, A-120; sc: FNW/cor Puenticitas Grt, A-111, go NW alg extd NEL 6200 th NE @ RA 1350 to loc; 467 FNL & 930 FWL lse in Sec 46 R. King Farm Lots, 2173 FSL & @ 930 FWL Sec 46, 200 SW Miami 1 Quebe, (D&A @ TD 5918); Petroleum 1 Groeneveld, (Inactive OW @ TD 6005).

Spud: 2-13-85 Comp: 5-10-85 Elev: 117 KB DTD: 5859 C/Corpus Christi Drlg, Rig 5.
Casing: 8 5/8 @ 717 w/250sx; 2 7/8 @ 5150 w/1061sx.
Comp Info: Drld to 5859, ran DENL/DI/GRL 717-5859, no SDWL Cores, ran 2 WLT's (no details), Perfs 4567-4577 (Frio), Well (non-commercial); TD 5859 (Frio), Comp D&A 5-10-85, Rel Rig 2-20-85.

Petroleum Information Corporation Date: 4-24-86 Card No. 22 ST-4

Southern Minerals - Ida Walker #6

Southern Minerals Corp. #6 Walker, Ida W. (H-3)

DATE	DEPTH	
3-1-41	4060'	Shale. Sp. 2-20-41. 10-3/4" at 1081'.
3-11-41	5652'	Sand. WOC. Cored: 5416'-19' hrd. snd., oil show: 5499'-5501' snd., oil show; 5609'-17' Gas snd.; 5619'-52' oil snd. 20 min. DST 5646'-52', 1/4" & 3/8" chks. 85# WP, flowed oil. Rec. 2000' oil, 250' salt wtr. Ran Schlum. $5\frac{1}{2}$" at 5652'.
3-18-41	TD 5652' PD 5642'	Sand. Perf. 5637'-42' w/20 holes. Made 119 bbls. per day thru 1/8" chk. 940# TP, 1275# CP. Ratio 1175:1. Gty. 39.1. IP 119 bbls. COMPL. 3-6-41.

ELEV.

TOP DEPTH

LOCN. 467' out of SE cor. of NW/4 of Sec. #33. Richard King Farm Lots. Rafael Garcia Grant, A-120.

CO-ORD H-3 241-L

COUNTY-DISTRICT Richard King F. COMPANY NO. LEASE Walker, Ida W.

WELL RECORD

Southern Minerals
Ida Walker #4

1

COMPANY: SOUTHERN MINERALS
WELL: IDA WALKER # 4
RUN NO.:
FIELD:
SURVEY: KING RANCH LOTS
COUNTY:
STATE: TEXAS
FILING No.

81

126/116

DIAMETER OF HOLE

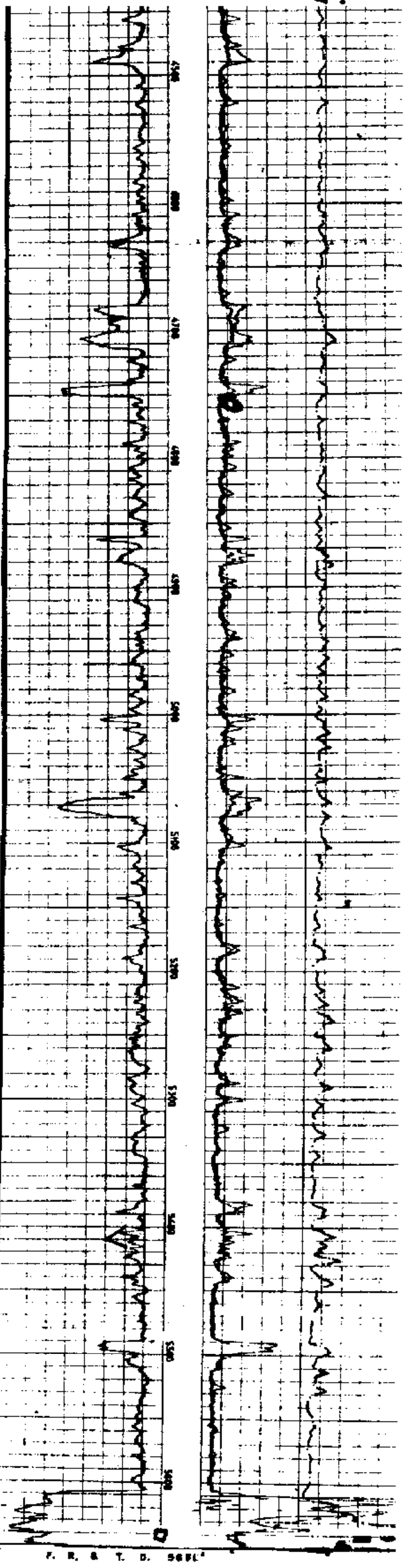
MUD CHARACTERISTICS

REMARKS

DATE

SELF-POTENTIAL

RESISTIVITY



F. R. & T. D. 5681'

SOUTHERN MINERALS CORP.

IDA WALKER NO. 4

COMPANY SOUTHERN MINERALS CORPORATION
WELL NO 4 FARM Ida Walker
LOCATION 1980' fr W/L & 1560' fr S/L of Sec 33, R.King Farm lots, on
ELEV. 126' DF

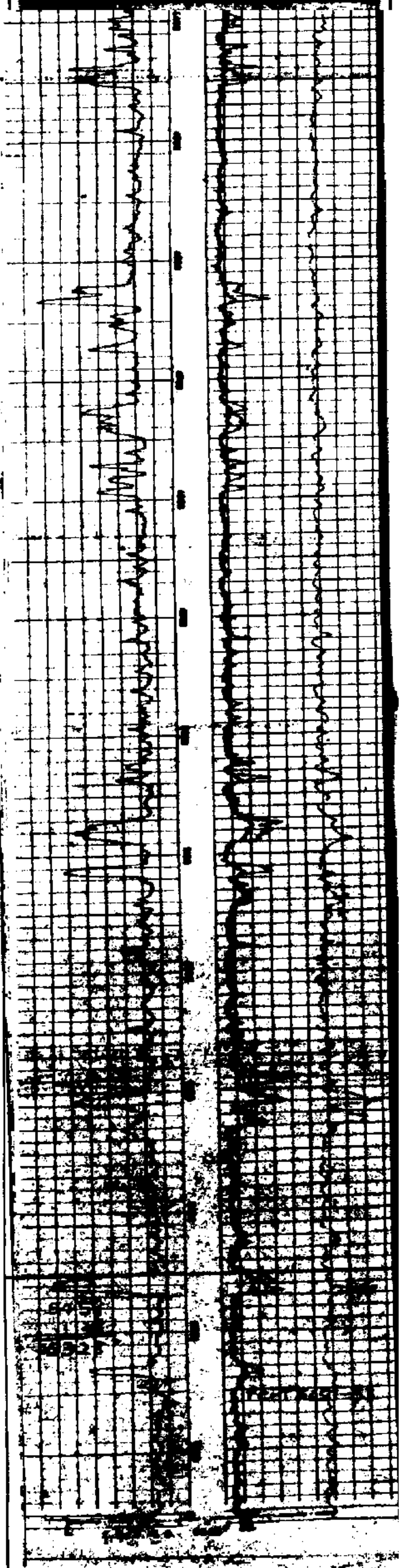
REMARKS
Cut ad gas odor 5606-10'
Cut ad oil odor 5619-25'
Cd S.O. 5635-50'

T D 5635' ad
PERF 5650'
SHOTS 5646-48'
PRESSURES 20
GRAVITY TP 975#, CP 1000#
WATER 39.1
COMPLETED none
I P 3-1-41
76.42 BPD on 7/54" ch
GOR 1202-1
CASING RECORD 10-3/4" 1077'
6" 50'
5635'

Southern Minerals
Ida Walker #11

2

MASTER COPY



SOUTHERN MINERALS CORP.
I. W. WALKER NO. 11

Miami Operating
F. Quebe #1

3

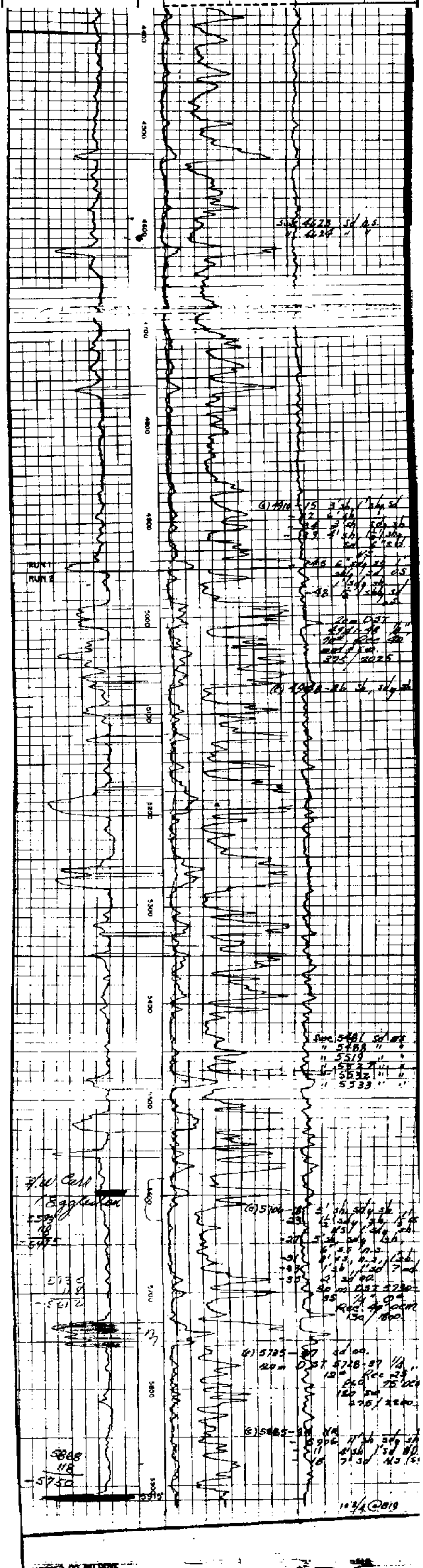
COMPANY MIAMI OPERATING, INC.
WELL FRED QUEBE #1
FIELD WILDCAT
LOCATION RICHARD KING FARM LOTS, SEC. #46
COUNTY NUECES
STATE TEXAS

Location of Well: 330' N & E lines of NW of SW of Section 46, Richard King Farm Lots.

FILING No. 35-25

REMARKS * UNAVAILABLE
** 1410 NATURE-Barold-Aquagel-Olifes-Hydrofam
*** BIT SIZE: 8 5/8" from CSG to 5885'
7 5/8" from 5885' to TD

SPONTANEOUS-POTENTIAL	DEPTH	RESISTIVITY ohms. m²/m	RESISTIVITY ohms. m²/m
		4	
		20	0 A0=16'8"
		20	



Carr, WM F etal
Eggleston, CA #1

4

SCHLUMBERGER WELL SURVEYING CORPORATION

COMPANY F. WM. CARR ET AL

WELL C.A. EGGLESTON #1

FIELD WILDCAT

LOCATION SEC. 38 R. KING FARM LOTS.

COUNTY NUECES

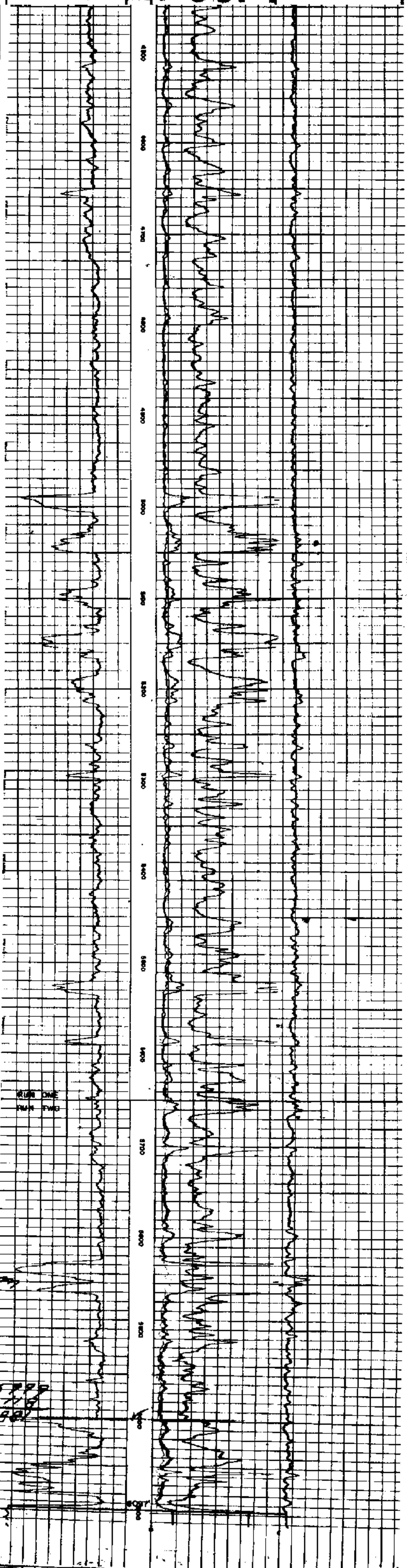
STATE TEXAS

Location of Well: 467' N & E LNS of SECTION 38 RICHARD KING FARM LOTS.

FILING No. S0-25

REMARKS * UNAVAILABLE
** MUD NATURE: Natural-Oil

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms. m²/m	RESISTIVITY ohms. m²/m
10		AM AN-16" 4	
		AM 16" 20	AO 18'8" 20
		AM 64" 20	



F. WM. CARR et al
C.A. EGGLESTON #1
NUECES COUNTY WILDCAT

T.D. LOG 6197'
T.D. DRLR. 6400'

P.O. Box 407 Corpus Christi, Texas TU-22551

PERFORATING GUNS ATLAS CORPORATION

Electrical Log

Petroleum Inc.
H. Groeneveld #1

COMPANY PETROLEUM INC.
WELL HEINO GROENEVELD #1
FIELD WILDCAT
LOCATION
COUNTY [illegible]
STATE TEXAS

Location of Well
S/2 Sec 39, R.
King Farm
Lots, 330 FN
& E of Lie

Elevation: D.F.
K.B.
or G.L.

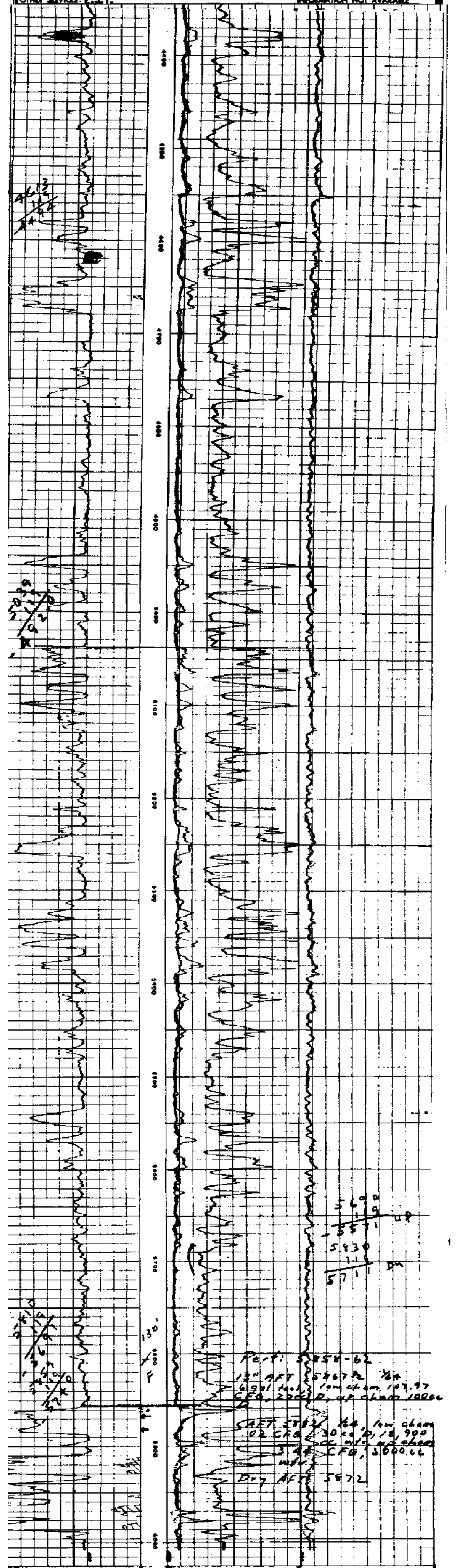
FILING No.

REMARKS MUD SAMPLE TAKEN FROM PIT 2 HOURS AFTER CIRCULATION

PETROLEUM DATA SERVICE, INC.

OTHER SERVICES: E.S.T.

INFORMATION NOT AVAILABLE



AMP. AM 16" 4
AM 16" 20
OFF SCALE 200
AM 64" 20
OFF SCALE 200
AO 8' 20
OFF SCALE 200
AO' 18' 20
OFF SCALE 200

10
— |←→| +

SPONTANEOUS-POTENTIAL milli-volts

DEPTHS

RESISTIVITY ohms. m²/m

RESISTIVITY ohms. m²/m

Released by

Carey, WM J & Hoover COMPANY

H. Groeneveld #1 Esti. Tex 6 U-22551

SCHLUMBERGER WELL SURVEYING CORPORATION

Electrical Log

COUNTY NUECES
FIELD or LOCATION WILDCAT
WELL HEIKO GROENEVELD
COMPANY WM. J. CAREY & L. E. HOOVER

COMPANY WM. J. CAREY & L. E. HOOVER
WELL HEIKO GROENEVELD
FIELD WILDCAT
LOCATION
COUNTY NUECES
STATE TEXAS

REMARKS

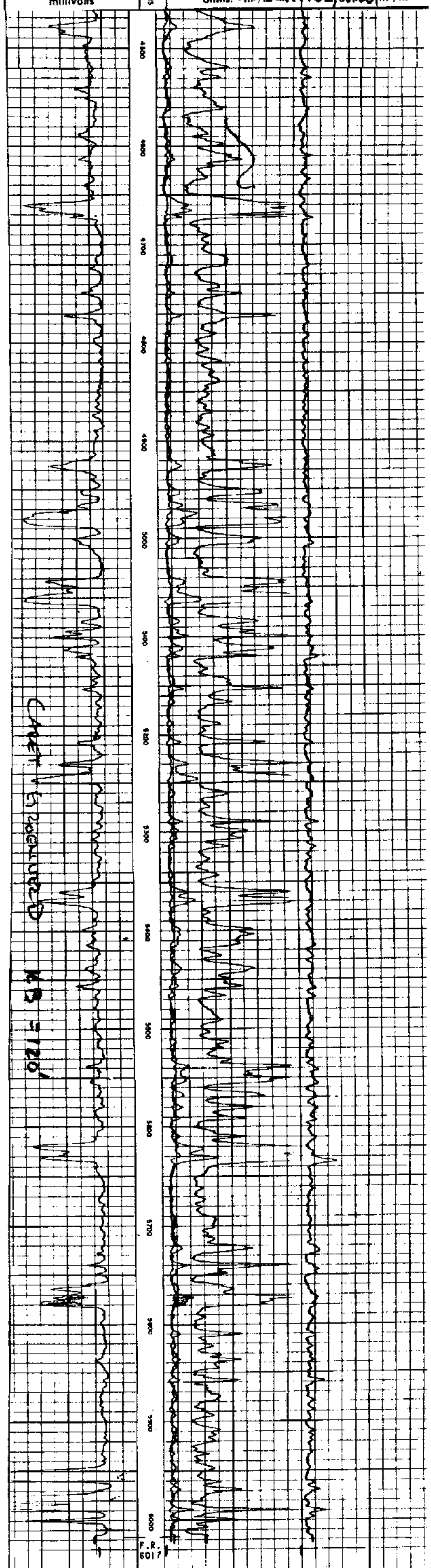
Carey, Wm. J. & Hoover, L.E.
#1 Groeneveld, Heiko
DF: 119.40; KB: 120.40; GL: 110

SPONTANEOUS-POTENTIAL millivolts

PETROLEUM DATA SERVICE, INC.

RESISTIVITY ohms. m²/m

RESISTIVITY ohms. m²/m



F.R. 6017

AMP AM=18"
AM=16" 20
AM=16" 200
AM'=64" 20
AM'=64" 200
AO=18'8"

SPONTANEOUS-POTENTIAL millivolts

RESISTIVITY -ohms. m²/m

RESISTIVITY -ohms. m²/m

COMPANY WM. J. CAREY & L. E. HOOVER
WELL HEIKO GROENEVELD # 1
FIELD WILDCAT STATE TEXAS

7

NIXON OFFICE SUPPLY CO.

San Patricio Corp.
Rosa Lee Moench #1

CORPUS CHRISTI, TEXAS 78401

Combination Logging Systems

Induction Electrolog BHC Acoustilog®

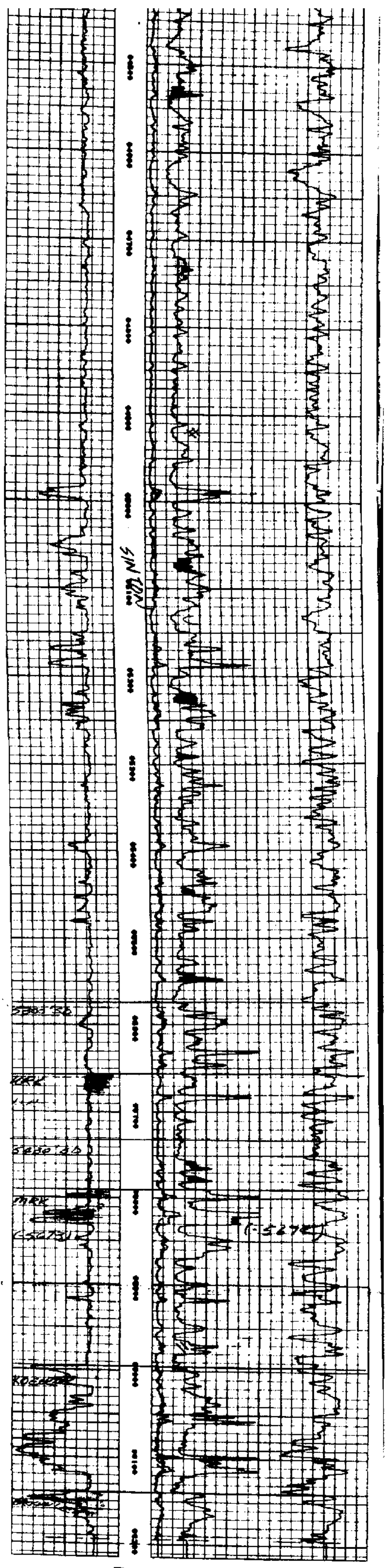
COMPANY SAN PATRICIO CORPORATION

WELL ROSA LEE MOENCH #1

FIELD WILDCAT

COUNTY NUECES STATE TEXAS

Ø D&A
2-19-82



6230 (-6112)

COMPANY SAN PATRICIO CORPORATION	Driller T.D. 6180'
WELL ROSA LEE MOENCH #1	Log F.R. 6196'
FIELD WILDCAT	Log T.D. 6200'
COUNTY NUECES	Elevations:
STATE TEXAS	K.B. 118.2' D.F. 117.2' G.L. 106.1'

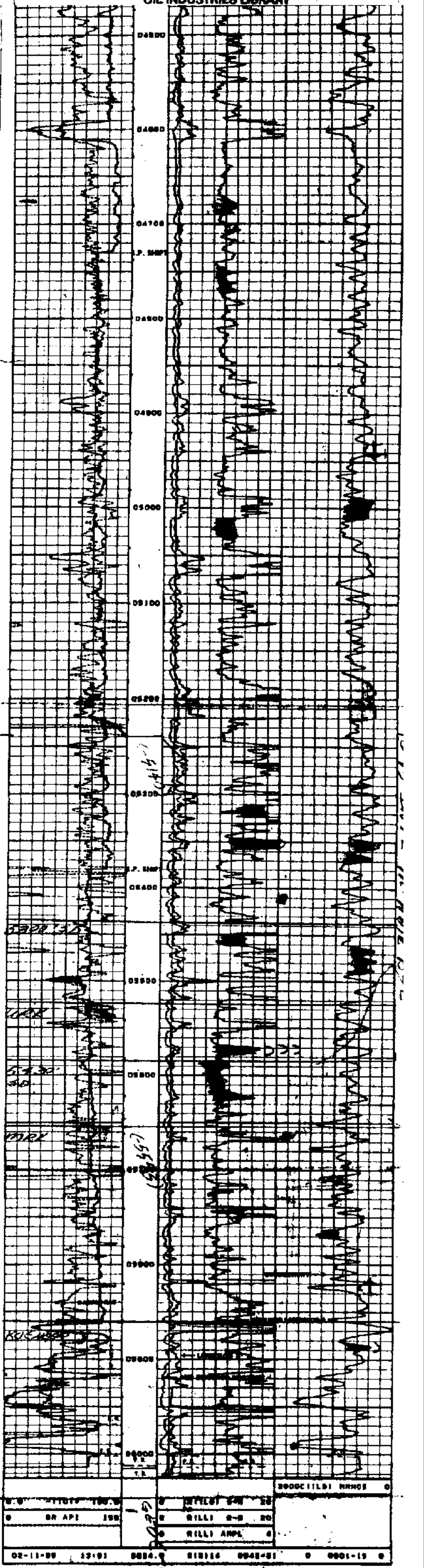
NUECES — SOUTH TEXAS — WILDCAT WF

Well: SAN PATRICIO CORP. Result: D&A
Loc'n: 1 Rosa Lee Moench (API 42-355-31987; Permit No. 148624)

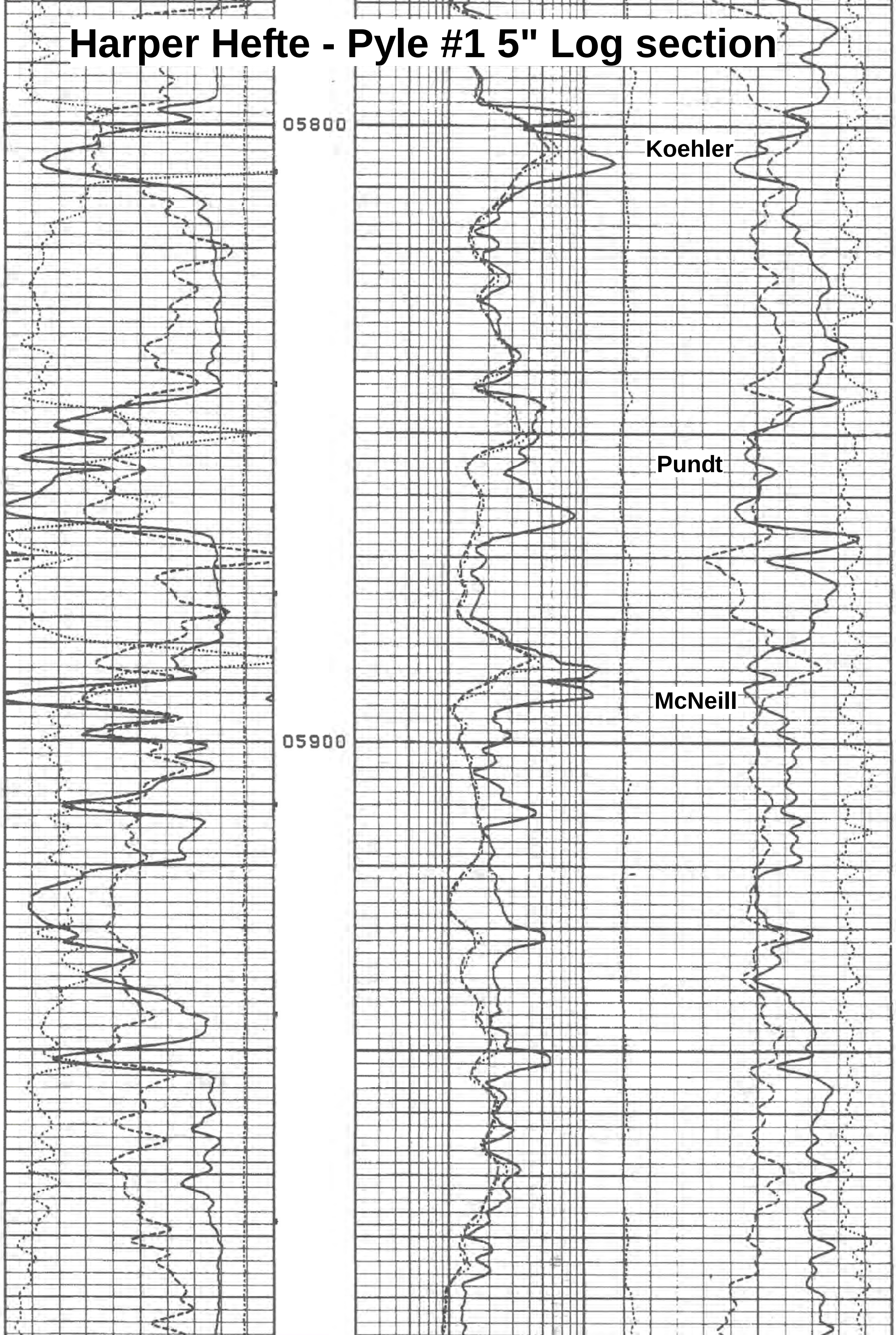
(18S-18E-3) 3 mi NE Agua Dulce, 160-ac lse, Agua Dulce Grt, A-120; 900 FEL & 467 FSL SW/4 Sec 46, R. King Farm Lots Subd; sc: FNW/cor Puenticitas Grt, A-111, go SW alg NWL 200, th NW @ RA 5850 to loc; sc: 1700 NE F.W. Carr, et al 1 Queba (D&A @ TD 6100) ¼ mi SE of McCullough Fld.

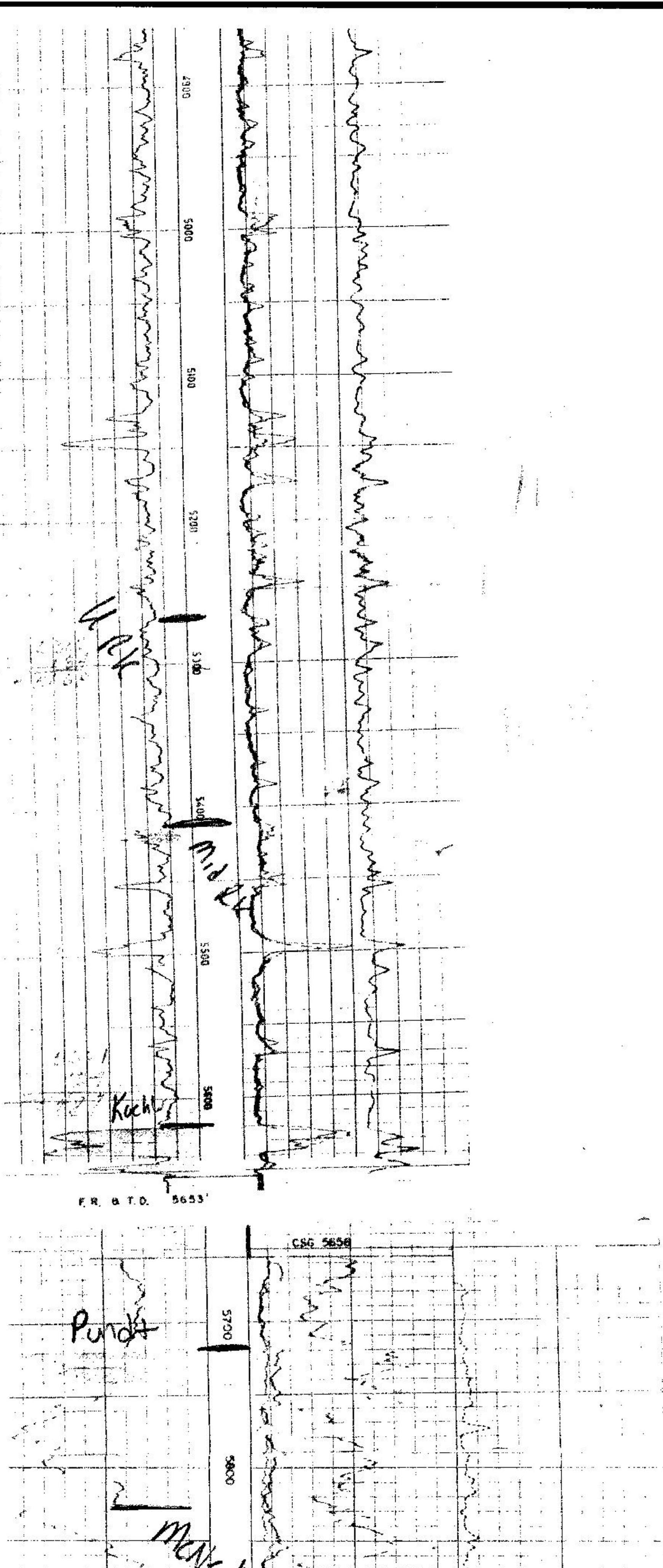
Spud: 2-9-82 Comp: 2-19-82 Elev: 106 Grd TD 6180 C/San Patricio Drlg Co., Rig 7
Casing: 8 5/8 @ 1261 w/420sx.
Comp Info: Drld to TD 6180, ran IES/ES/BHC-ACSL, took SDWL Cores, ran WLT's; TD 6180 (in Frio) D&A Comp 2-19-82, Rel Rig 2-19-82.

Eugene Oil Co
McNair #2



Harper Hefte - Pyle #1 5" Log section

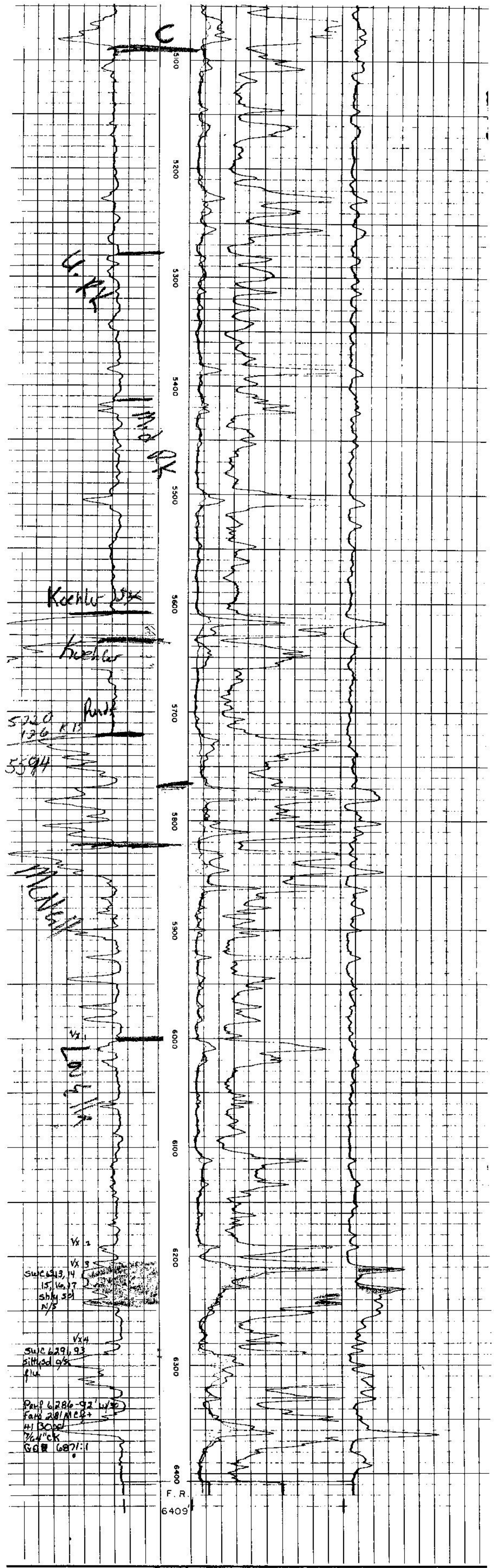




SOUTHERN MINERALS CORP
RICHARD KING NO B-16
RICHARD KING FIELD
NUECES CO., TEXAS.

T.D.LOG 6371
T.D. DRLR 6371

DETAIL SECTION



SPONTANEOUS-POTENTIAL millivolts	RESISTIVITY -ohms. m²/m	RESISTIVITY -ohms. m²/m
10	0 AMP.AM=16" 4	
	0 AM=16" 20	0 AO=18'8" 20
	0 AM=16" 200	0 AO=18'8" 200
	0 AM'=64" 20	
	0 AM'=64" 200	

COMPANY SOUTHERN MINERALS CORPORATION — Rm .82 @ 142 °F — SWSC FR. 6409
WELL IDA WALKER NO.18 — Rmf .70 @ 142 °F — SWSC TD. 6410
FIELD RICHARD KING STATE TEXAS — Rmc 1.38 @ 142 °F — DRLR TD. 6410
BHT 142 °F — Elev: KB 125.8 DF GL 114.3