



COUNTY	LEA	FIELD	Saunders	STATE	NM
OPR	YATES PETROLEUM CORP.			API	30-025-27914
40	1	LEASE	Swan "VB" State	MAP	
	Sec 21, T14S, R33E			CO-ORD	
	1980 FSL, 660 FEL of Sec			8-2-10 NM	
	22 mi SE/Caprock			Re-SPD 7-21-83 Re-CMP 7-26-83	
CSG	WELL CLASS: INIT DXFIN DO LSE. CODE				
13 3/8-450-450 sx	FORMATION		DATUM		
8 5/8-4200-2205 sx					
5 1/2-10,324-1100 sx					
	TD 10,324 (CNYN)		PBD 9887		
(Permo-Pennsylvanian) Perfs 9872-87 NO NEW POTENTIAL					

CONTR	OPRSELEV	4212 GL
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F.R.C. 8-13-83 OWWO
PD 9887 WO
(Orig. #1 Swan "VB", Cmp 11-3-82 thru
(Permo-Pennsylvanian) Perfs 9872-9948, OTD
10,324, OPB 10,090; OWWO & Re-Cmp 5-27-83
thru (Permo-Pennsylvanian) Perfs 9872-9948,
OTD 10,324, OPB 10,140)
8-8-83 TD 10,324; PBD 9887; Complete
Ret @ 9910
Sqzd (9923-48) 65 sx
DO to 9887
8-13-83 COMPLETION ISSUED

8-2-10 NM
1C 30-025-70517-83



Petroleum Information

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COUNTY LFA FIELD Saunders STATE NM
 OPR YATES PETROLEUM CORP. API 30-025-27914
 NO 1 LEASE Swan "VB" State MAP
 Sec 21, T14S, R33E COORD
 1980 FSL, 660 FEL of Sec 7-1-27 NM
 22 mi SE/Caprock RE-SPD 5-25-83 RE-CMP 5-27-83

CSC

13 3/8-450-450 sx
 8 5/8-4200-2205 sx
 5 1/2-10,324-1100 sx
 2 7/8-9851

WELL CLASS: INIT DX FIN DO LSE CODE			
FORMATION	DATUM	FORMATION	DATUM
TD 10,324 (CNYN)		PBD 10,140	

(Permo-Pennsylvanian) Perfs 9872-9948 NO NEW POTENTIAL

CONTR OPRSLIV 4212 GL sub-s

6-27-83 F.R.C. 7-2-83 OWWO
 PD 10,140 WO
 (Orig. #1 Swan "VB", Cmp. 11-3-82 thru
 (Permo-Pennsylvanian) Perfs 9872-9948,
 OTD 10,324, OPB 10,090)
 TD 10,324; PBD 10,140; Complete
 DO CIBP @ 10,090 & CO to 10,140
 Sqzd (10,107-137) 150 sx
 No additional work performed
 7-2-83 COMPLETION ISSUED

7-1-27 NM
 IC 30-025-70380-83

COUNTY LEA FIELD Saunders STATE NM
 OPR YATES PETROLEUM CORP. API 30-025-27914
 JO 1 LEASE Swan "VB" MAP
Sec 21, T14S, R33E COORD
1980 FSL, 660 FEL of Sec 12-3-25 NM
22 mi SE/Caprock SPD 8-24-82 CMP 11-3-82

CSC	WELL CLASS: INIT D FIN DO LSE. CODE			
	FORMATION	DATUM	FORMATION	DATUM
13 3/8-450-450 sx				
8 5/8-4200-2205 sx				
5 1/2-10,324-1100 sx				
2 7/8-9851				
	TD 10,324 (PMPV)		PBI	10,090

IP (Permo-Pennsylvanian) Perfs 9872-9948 P 14C BOPD + 320 BW.
 Pot based on 24 hr test. GOR 679; gty (NR)

CONTR Ard #6 OPR LEV 4212 GL sub-s 13

F.R. 8-30-82
 PD 10,200 RT (Permo-Pennsylvanian)
 9-7-82 Drlg 5474
 9-14-82 Drlg 7722
 9-21-82 Drlg 9114
 9-28-82 TD 10,324; Bit Trip
 10-5-82 TD 10,324; WOCU
 10-27-82 TD 10,324; PBD 10,250; Tstg
 Perf (Bough) 10,169-239 w/18 shots
 Acid (10,169-239) 3000 gals
 Swbd wtr w/NS (10,169-239)
 Sqzd (10,169-239) 75 sx
 Perf (Bough) 10,107-137 w/12 shots
 Acid (10,017-137) 2000 gals
 Swbd wtr w/NS (10,107-137)
 12-13-82 TD 10,324; PBD 10,090; Complete
 PB to 10,090
 12-3-25 NM

LEA
YATES PETROLEUM CORP.

Saunders
1 Swan "VB"
Sec 21, T14S, R33E

NM
Page #2

12-13-82 Continued
 Perf (Bough) 9872-9948
 Treatment (NR) (9872-9948)
12-18-82 COMPLETION ISSUED

12-3-25 NM
IC 30-015-70087-82



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

YATES PETROLEUM
COMPANY

V. R. SWAN STATE WELL NO. 1
WELL NAME

LEA COUNTY NEW MEXICO
LOCATION

JOB NUMBER
WT0183-G0114

TYPE OF SURVEY
GYROSCOPIC MULTISHOT SURVEY

DATE
1/25/83

SURVEY BY
GARY DESPAIN

OFFICE
WEST TEXAS

YATES PETROLEUM
VB SWAN STATE WELL NO. 1
LEA COUNTY, NEW MEXICO BDI-353
JANUARY 25, 1983

EASTMAN WHIPSTOCK, INC.
GYROSCOPIC MULTI SHOT SURVEY WT0183-G0114
SURVEYOR: GARY DESPAIN (0-10100')



RADIUS OF CURVATURE METHOD

TIME DATE

08:42:23 26-JAN-83

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	R E C T A N G U L A R		DOGLEG SEVERITY DG/100FT
					G O O R D I N A T E S	FEET	
0.	0 0	0	0.	0.00	0.00	0.00	0.00
100.	0 15	N 29 W	100.	100.00	0.19 N	0.11 W	0.25
200.	0 30	S 13 E	100.	200.00	0.03 N	0.53 W	0.74
300.	0 30	S 74 E	100.	299.99	0.58 S	0.04 E	0.51
400.	0 45	N 75 E	100.	399.99	0.59 S	1.12 E	0.41
500.	0 45	N 58 E	100.	499.98	0.07 S	2.32 E	0.22
600.	0 45	S 77 E	100.	599.97	0.15 N	3.57 E	0.57
700.	1 0	N 73 E	100.	699.96	0.20 N	5.08 E	0.51
800.	1 0	N 56 E	100.	799.94	0.92 N	6.67 E	0.26
900.	1 0	N 74 E	100.	899.93	1.63 N	8.26 E	0.28
1000.	1 30	N 64 E	100.	999.90	3.13 N	10.29 E	0.54
1100.	1 15	N 64 E	100.	1099.88	3.13 N	12.45 E	0.25
1200.	1 15	N 79 E	100.	1199.82	4.13 N	14.51 E	0.33
1300.	1 30	N 79 E	100.	1299.82	4.13 N	16.86 E	0.25
1400.	1 0	S 65 E	100.	1399.80	4.35 N	18.99 E	0.91
1500.	1 15	S 27 E	100.	1499.78	3.01 N	20.38 E	0.77
1600.	1 0	S 45 E	100.	1599.76	1.42 N	21.53 E	0.43
1700.	0 30	S 12 E	100.	1699.75	0.29 N	22.15 E	0.64
1800.	0 45	S 13 E	100.	1799.75	0.77 S	22.38 E	0.25
1900.	0 45	S 87 E	100.	1899.74	1.56 S	23.32 E	0.90
2000.	0 15	S 39 E	100.	1999.73	1.94 S	24.07 E	0.61
2100.	0 30	S 58 E	100.	2099.73	2.38 S	24.56 E	0.28
2200.	1 0	S 86 E	100.	2199.72	2.78 S	25.79 E	0.61
2300.	0 30	N 39 E	100.	2299.71	2.27 S	26.95 E	0.82
2400.	0 45	N 45 E	100.	2399.71	1.46 S	27.67 E	0.26
2500.	1 0	N 54 E	100.	2499.69	0.47 S	28.83 E	0.28
2600.	0 45	N 45 E	100.	2599.68	0.52 N	29.99 E	0.28
2700.	1 0	N 67 E	100.	2699.67	1.36 N	31.25 E	0.41
2800.	1 0	N 35 E	100.	2799.66	2.45 N	32.59 E	0.55
2900.	0 45	N 20 E	100.	2899.64	3.80 N	33.29 E	0.34

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
3000.	1 0	N 49 E	100.	2999.63	5.04 N 34.15 E	0.50
3100.	1 0	N 19 E	100.	3099.62	6.47 N 35.11 E	0.52
3200.	1 0	N 24 E	100.	3199.60	8.09 N 35.75 E	0.09
3300.	1 15	N 30 E	100.	3299.58	9.84 N 36.64 E	0.28
3400.	1 15	N 29 E	100.	3399.56	11.74 N 37.72 E	0.02
3500.	1 0	N 73 E	100.	3499.54	12.95 N 39.21 E	0.87
3600.	1 30	N 64 E	100.	3599.52	13.75 N 41.23 E	0.54
3700.	1 0	N 81 E	100.	3699.49	14.40 N 43.31 E	0.62
3800.	1 0	N 77 E	100.	3799.48	14.73 N 45.02 E	0.07
3900.	1 30	N 88 E	100.	3899.45	15.02 N 47.18 E	0.55
4000.	1 0	N 88 E	100.	3999.43	15.00 N 49.36 E	0.50
4100.	1 15	N 74 E	100.	4099.41	15.00 N 51.29 E	0.37
4200.	1 15	N 78 E	100.	4199.39	15.00 N 53.41 E	0.09
4300.	1 0	N 86 E	100.	4299.37	15.00 N 55.34 E	0.26
4400.	1 15	N 86 E	100.	4399.35	16.51 N 57.29 E	0.27
4500.	1 15	N 77 E	100.	4499.32	16.83 N 59.45 E	0.20
4600.	1 15	N 60 E	100.	4599.30	17.63 N 61.47 E	0.37
4700.	1 0	N 77 E	100.	4699.28	18.35 N 63.29 E	0.41
4800.	0 45	N 89 E	100.	4799.27	18.53 N 64.80 E	0.31
4900.	1 15	N 81 E	100.	4899.25	18.68 N 66.54 E	0.52
5000.	1 0	N 85 E	100.	4999.23	18.92 N 68.49 E	0.26
5100.	1 0	N 72 E	100.	5099.22	19.27 N 70.20 E	0.23
5200.	1 0	N 61 E	100.	5199.20	19.96 N 71.79 E	0.19
5300.	1 30	N 74 E	100.	5299.18	20.80 N 73.81 E	0.57
5400.	1 30	N 85 E	100.	5399.14	21.27 N 76.37 E	0.29
5500.	1 30	N 77 E	100.	5499.11	21.68 N 78.96 E	0.21
5600.	1 30	N 84 E	100.	5599.08	22.11 N 81.54 E	0.18
5700.	1 30	S 88 E	100.	5699.04	22.21 N 84.15 E	0.21
5800.	1 15	N 65 E	100.	5799.01	22.68 N 86.48 E	0.69
5900.	1 30	N 63 E	100.	5898.98	23.73 N 88.64 E	0.25

Eastman
 Whipstock
 Log

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR CORRECTION FEET	DOGLEG SEVERITY DG/100FT
6000.	1 30	N 48 E	100.	5998.95	25.21 N 90.79 E	0.39
6100.	2 0	N 63 E	100.	6098.90	26.93 N 93.30 E	0.67
6200.	1 30	N 33 E	100.	6198.86	28.96 N 95.54 E	1.03
6300.	1 15	N 44 E	100.	6298.83	30.83 N 97.03 E	0.36
6400.	1 15	N 49 E	100.	6398.80	32.33 N 98.62 E	0.11
6500.	1 0	N 51 E	100.	6498.78	33.59 N 100.12 E	0.25
6600.	1 15	N 38 E	100.	6598.76	34.99 N 101.50 E	0.36
6700.	1 30	N 40 E	100.	6698.73	36.86 N 103.00 E	0.25
6800.	1 15	N 21 E	100.	6798.71	38.91 N 104.22 E	0.52
6900.	1 0	N 25 E	100.	6898.69	40.72 N 104.98 E	0.26
7000.	0 45	N 21 E	100.	6998.67	42.33 N 105.58 E	0.26
7100.	0 30	S 60 W	100.	7098.67	42.33 N 104.94 E	1.18
7200.	1 0	S 60 E	100.	7198.66	41.13 N 104.94 E	1.32
7300.	1 15	N 80 E	100.	7298.66	41.13 N 106.84 E	0.80
7400.	1 0	S 74 E	100.	7398.62	41.15 N 108.79 E	0.56
7500.	0 45	N 17 E	100.	7498.61	41.81 N 110.00 E	1.24
7600.	0 15	N 12 W	100.	7598.61	42.67 N 110.03 E	0.54
7700.	1 0	S 62 E	100.	7698.60	43.19 N 110.73 E	1.18
7800.	1 0	N 53 E	100.	7798.58	43.32 N 112.38 E	1.07
7900.	1 15	S 87 E	100.	7898.56	43.89 N 114.22 E	0.80
8000.	1 30	N 82 E	100.	7998.54	43.99 N 116.61 E	0.36
8100.	2 0	S 85 E	100.	8098.49	44.07 N 119.66 E	0.64
8200.	2 15	S 78 E	100.	8198.42	43.52 N 123.32 E	0.36
8300.	3 0	N 73 E	100.	8298.31	43.72 N 127.65 E	1.50
8400.	2 15	N 78 E	100.	8398.21	44.87 N 132.28 E	0.78
8500.	3 15	N 86 E	100.	8498.09	45.53 N 137.03 E	1.07
8600.	2 45	N 71 E	100.	8597.96	46.58 N 142.14 E	0.93
8700.	2 15	S 89 E	100.	8697.86	47.25 N 146.43 E	1.00
8800.	4 0	S 89 E	100.	8797.71	47.16 N 151.68 E	1.75
8900.	2 30	N 84 E	100.	8897.54	47.41 N 157.54 E	1.55

Eastman
 Whiting Block

VB SWAN STATE WELL NO. 1

TIME DATE

LEA COUNTY, NEW MEXICO BDI-353

08:42:23 26-JAN-83

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
9000.	3 0	S 84 E	100.	8997.43	47.41 N 162.33 E	0.76
9100.	3 0	N 89 E	100.	9097.29	47.18 N 167.55 E	0.37
9200.	2 30	S 85 E	100.	9197.18	47.01 N 172.35 E	0.58
9300.	2 0	S 83 E	100.	9297.10	46.60 N 176.25 E	0.51
9400.	1 45	N 88 E	100.	9397.04	46.46 N 179.52 E	0.39
9500.	1 45	S 56 E	100.	9497.00	45.63 N 182.41 E	1.08
9600.	2 0	S 62 E	100.	9596.94	43.94 N 185.21 E	0.32
9700.	1 30	N 88 E	100.	9696.90	43.26 N 188.15 E	1.03
9800.	1 30	S 77 E	100.	9796.86	43.01 N 190.75 E	0.39
9900.	1 15	S 38 E	100.	9896.83	41.75 N 192.74 E	0.95
10000.	2 0	S 53 E	100.	9996.79	39.37 N 194.75 E	0.86
10100.	1 45	S 42 E	100.	10096.74	37.37 N 197.16 E	0.44

Eastman
Whipstock

FINAL CLOSURE - DIRECTION: N 79 DEGS 13 MINS E

DISTANCE: 200.71 FEET



P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

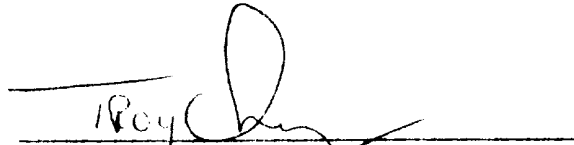
I, Gary DeSpain in the employ of Eastman Whipstock, Inc. did on the days of 1-25, 1983 thru 1-25, 1983 conduct or supervise the taking of a Gyroscopic Multi Shot survey by the method of magnetic orientation from a depth of 0 feet to 10100 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of Yates Petroleum for their V.B. Swan State Well No. 1, Lea County State of New Mexico, in the _____ field.

The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

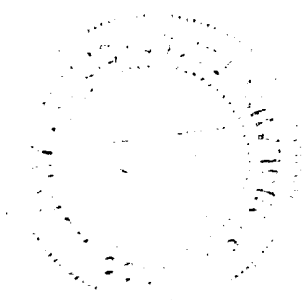

DIRECTIONAL SUPERVISOR/SURVEYOR

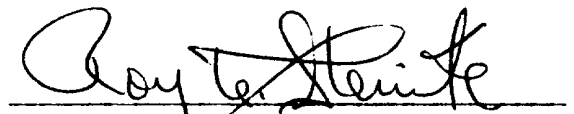
The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.



Before me, the undersigned authority, on the day personally appeared Gary DeSpain, known to me to be the person whose name is subscribed to the instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

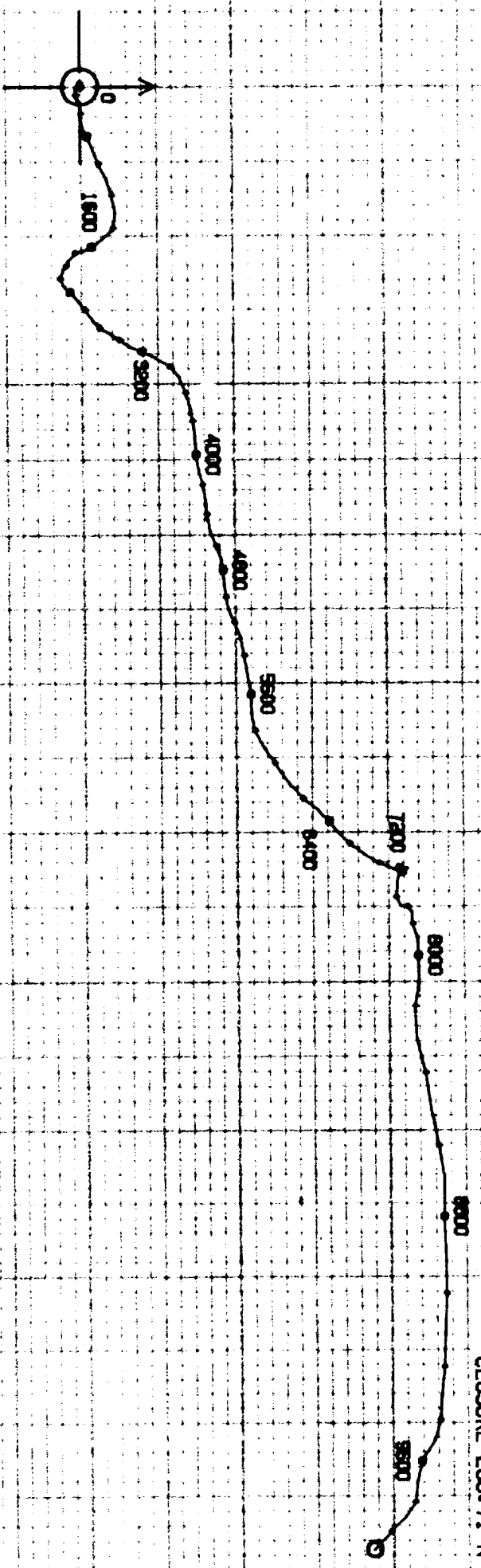
Subscribed and sworn to before me on this 26th day of JAN., 1983




Notary Public in and for the County
Midland, Texas
My commission expires 7/9/85

YATES PETROLEUM
VB SWAN STATE WELL NO. 1
LEA COUNTY, NEW MEXICO BD1-353
EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION
SCALE 1 IN. = 20 FEET
DEPTH INDICATOR: MD



FINAL STATION:
DEPTH 10100 MD, 10096.73 TVD
NORTH 37.55 EAST 197.16
CLOSURE 200.71 N 79 12 S3 E

All distances must be from the outer boundary of the Section

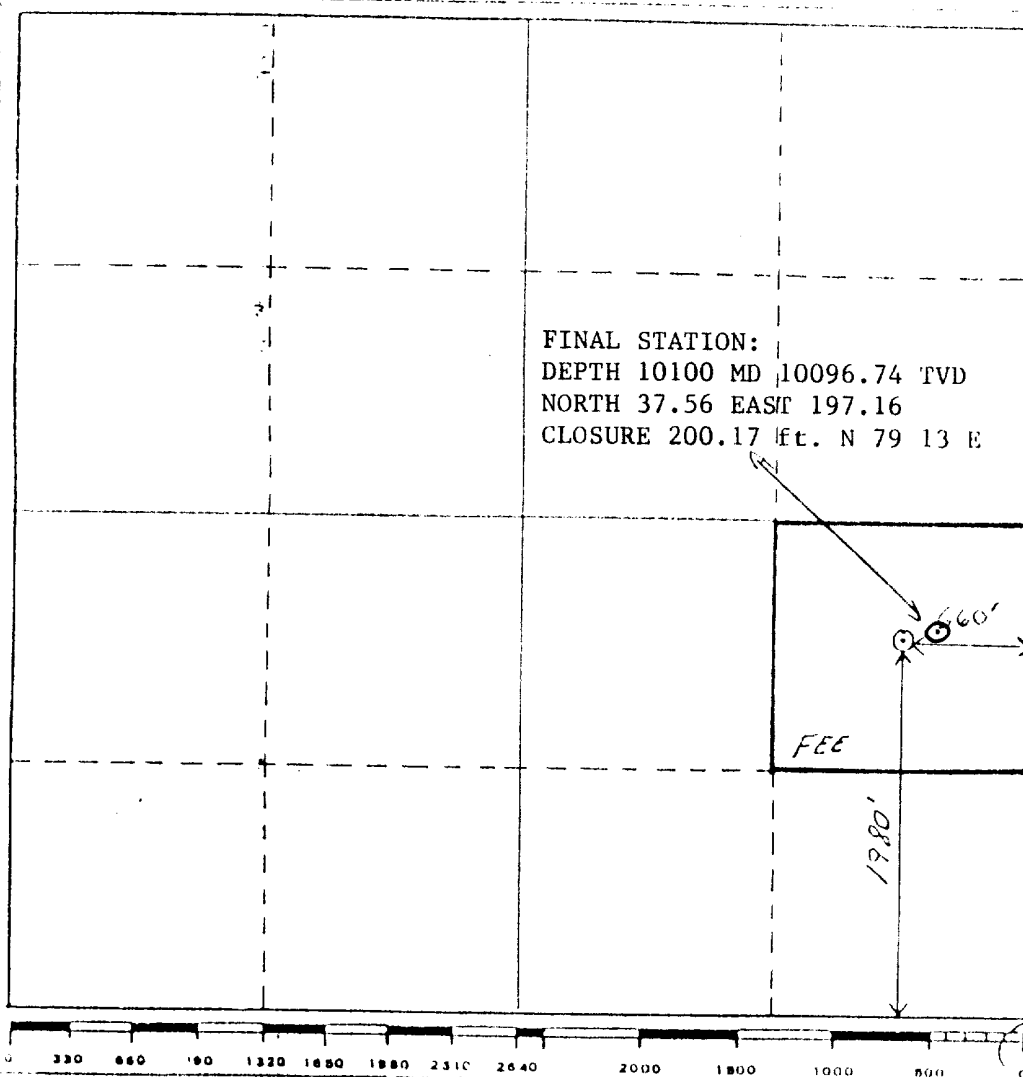
Operator Yates Petroleum Corporation		Lease Swan "A"		Well No. 1	
Well Letter 1	Section 21	Township 14 South	Range 33 East	County Lea	
Actual Location of Well:					
1980		feet from the	South	feet from the	East
Mount Level Elev. 4211.6'	Producing Formation Permo-Penn	feet	Wildcat	feet	40

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

Cy Cowan

Position

Regulatory Coordinator

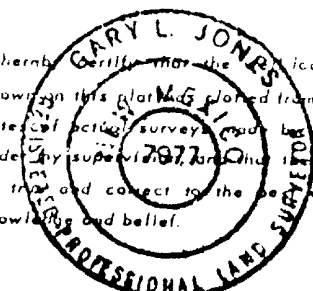
Company

Yates Petroleum Corporation

Date

8-19-62

I hereby certify that the location shown on this plat was plotted from field notes of actual survey made by me or under my supervision and that same is true and correct to the best of my knowledge and belief.



Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

7977



BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787 / ARTESIA, NEW MEXICO 88210 / PHONE 746-3281

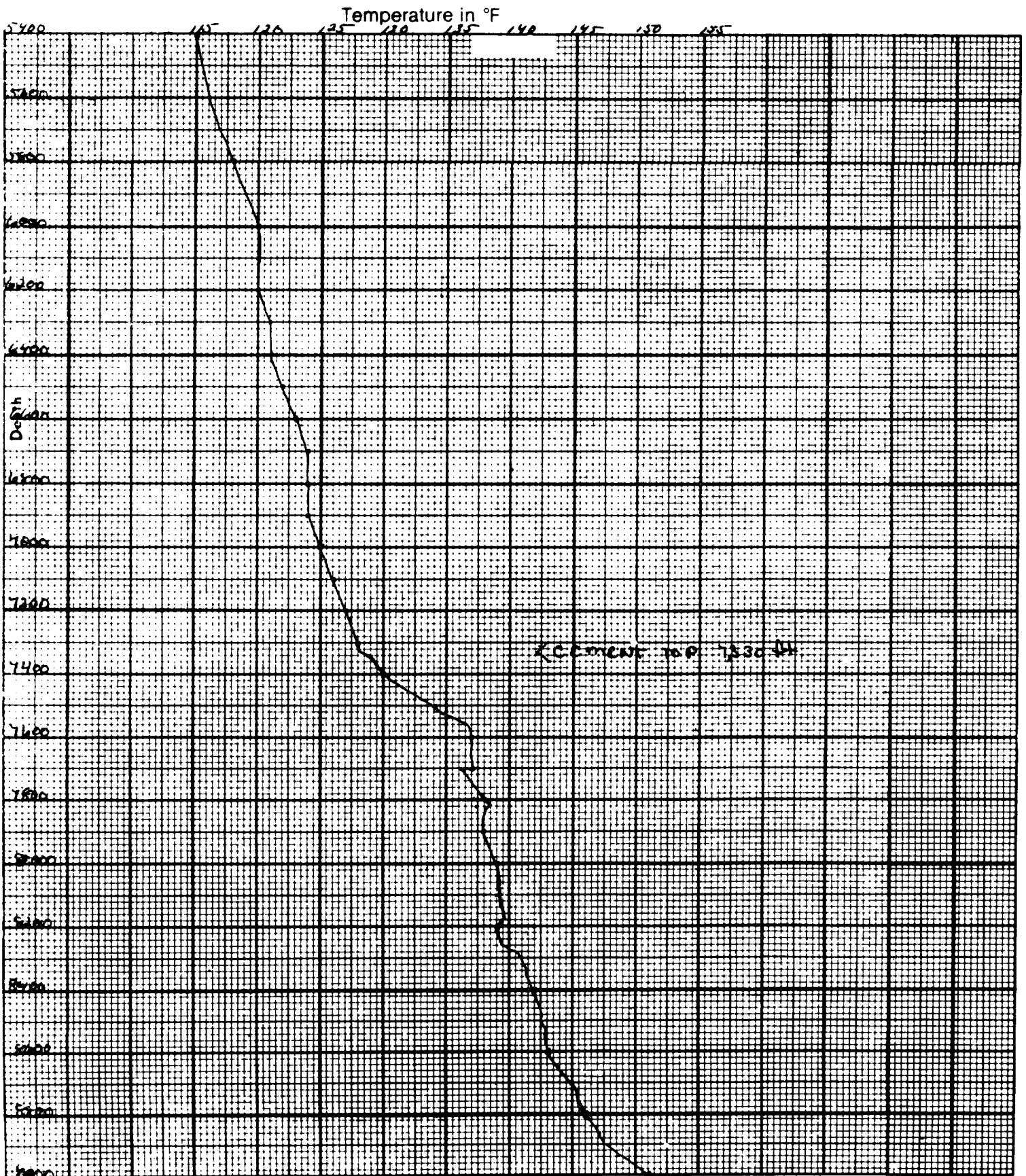
TEMPERATURE SURVEY

RECEIVED



OPERATOR YATES PETROLEUM CORP.
LEASE SWAN "VB" STATE OCT 7 1982
WELL NO. 1 21-14-33
COMPANY REPRESENTATIVE ED LAWSON O. C. D.
ARTESIA OFFICE
DATE & TIME CEMENT JOB COMPLETED 9-25-82 0530 HRS.
DATE & TIME SURVEY MADE 9-25-82 1200 HRS.
SURVEY RUN BY BOB HERREN
WELL DATA CEMENT TOP: 7,330 FEET
TOTAL DEPTH: 10,281 FEET

21-14-33



RECEIVED
OCT 29 1982
H.C. J.
HALLS OFFICE