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NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OGD

MAR 07 2013

Form C-101
Revised 12-65

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection Well SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. Unit Agreement Name	
2. Name of Operator Amoco Production Company		8. Farm or Lease Name South Hobbs(GSA)Ut.Coop	
3. Address of Operator P. O. Box 68, Hobbs, New Mexico 88240		9. Well No. 5	
4. Location of Well SL/BHL UNIT LETTER L LOCATED 1980/1330 FEET FROM THE South LINE AND 646/25 FEET FROM THE West LINE OF SEC. 34 TWP. 18-S RGE 38-E NMPM		10. Field and Pool, or Wildcat Hobbs GSA	
11. Elevations (Show whether DT, RL, etc.) 3624.8' GL		12. Country Lea	
21A. Kind & Status Plug. Bond Blanket-on-file		19A. Formation San Andres	
21B. Drilling Contractor Cactus Drilling Co.		20. Kind of Well Rotary	
22. Approx. Date Work will start 9-1-83			

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11" or 12-1/4"	8-5/8"	24#	1600'	Circulate to surface	
7-7/8"	5-1/2"	15.50#	4300'	Circulate to surface	

Propose to directionally drill and equip well in the San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in establishing injective

Mud Program: 0-1600' Native mud.
1600-4300' Brine with minimum properties for safe hole conditions.

BOP Diagram Attached.

Order No. R-4943-A issued 8-4-83.

0+5-NMOCD,H 1-HOU, R.E.Ogden,Rm 21.150 1-F.J.Nash, HOU, Rm. 4.206 1-CMH 1-Sun 1-Texaco

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 2/12/84
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Charles M. Serrin Title Administrative Analyst Date 8-10-83

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DIRECTOR SUPERVISOR TITLE DATE AUG 11 1983

CONDITIONS OF APPROVAL, IF ANY:

MAR 07 2013

O.C.D.
HOBBS OFFICE

AUG 11 1983

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NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

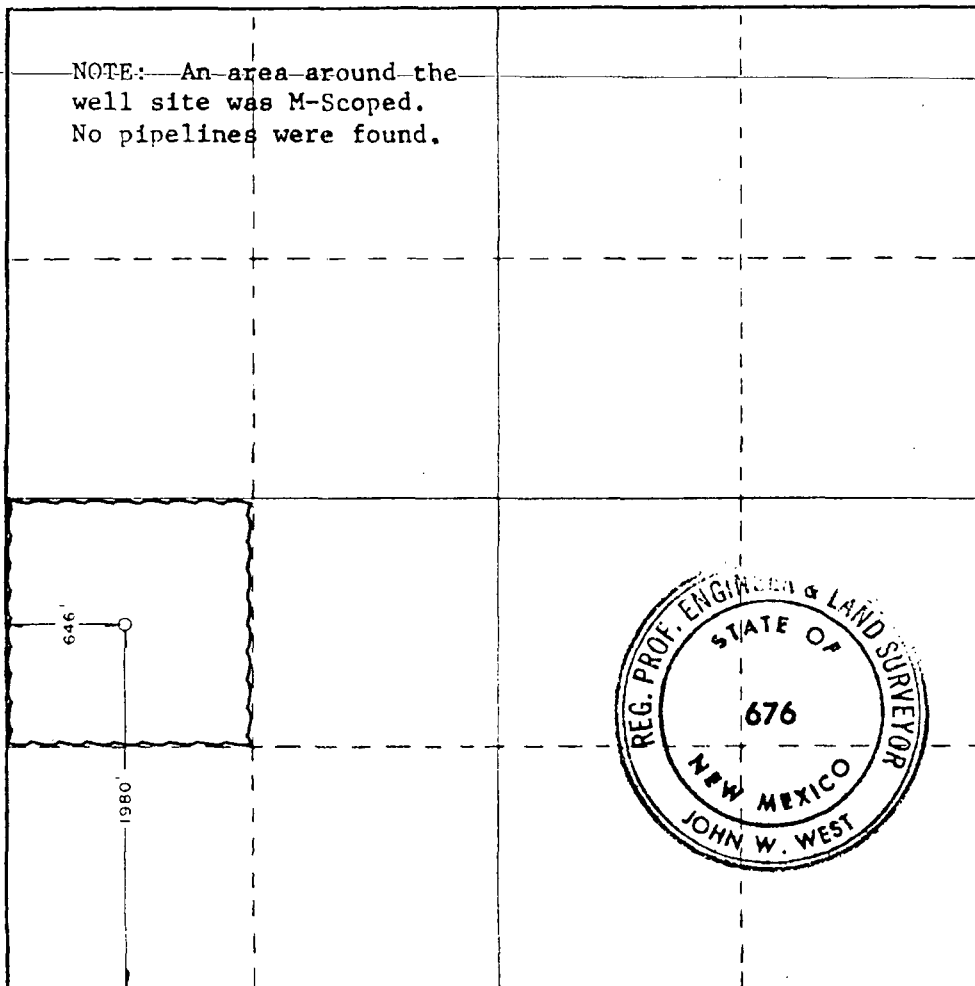
Operator Amoco Production Company		Lease South Hobbs Grayburg San Andres Unit Co-op		Well No. 5
Post Letter L	Section 34	Township 18 South	Range 38 East	County Lea
Actual Footage Location of Well: 1980 feet from the south line and 646 feet from the west line				
Ground Level Elev. 3624.8'	Producing Formation San Andres	Pool Hobbs GSA	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.

Signature: *Charles M. Lerring*
Position: **Administrative Analyst**

Company: **Amoco Production Company**

Date: **8-10-83**

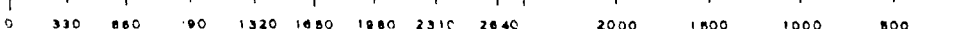
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **July 9, 1983**

Registered Professional Engineer and/or Land Surveyor

Signature: *John W. West*
Certificate No. **JOHN W. WEST, 676**

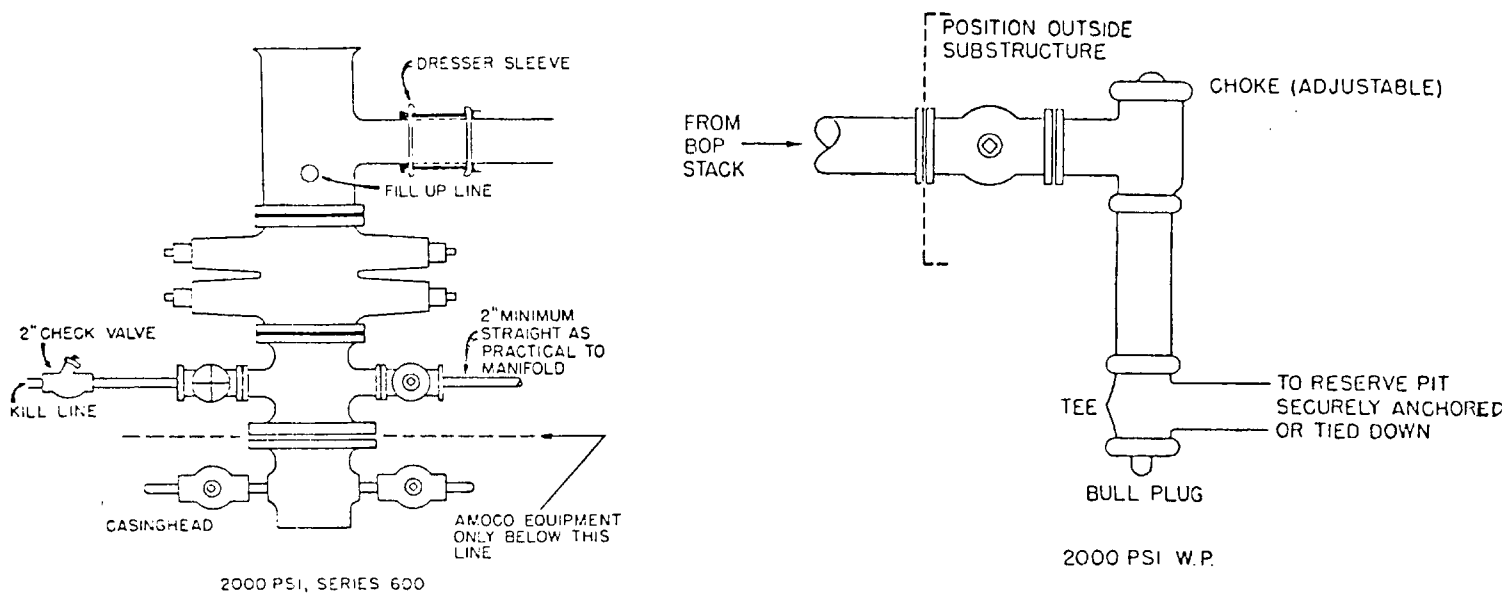
RONALD J. EIDSON, 3239



STANDARD 2000 PSI W.P. BOP STACK

1. Blow-out preventers may be manually operated.
2. All equipment must be in good condition, 2,000 psi W.P. (4,000 psi test) minimum.
3. Bell nipple above blow-out preventer shall be same size as casing being drilled through.
4. Kelly cock to be installed on kelly.
5. Full opening safety valve 2,000 psi w.p. (4,000 psi test) minimum must be available on rig floor at all times with proper connection or subs to fit any tool joint in string.
6. Spool or cross may be eliminated if connections are available in the lower part of the blow-out preventer body.
7. Double or space saver type preventers may be used in lieu of two single preventers.
8. BOP rams to be installed as follows:
 - Top preventer - Drill pipe or casing rams
 - Bottom preventer - Blind rams

*Amoco District Superintendent may reverse location of rams.
9. Extensions and hand wheels to be installed and braced at all times.
10. Manifold valves may be gate or plug metal to metal seal 2" minimum.



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AUG 11 1983

HOBBS OFFICE
O.C.D.



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

Amoco Production Company
COMPANY

South Hobbs Unit Coop. Well No. 5
WELL NAME

Lea County, New Mexico
LOCATION

JOB NUMBER
WT0883-S0311
WT0983-S0028

TYPE OF SURVEY
Magnetic Multi Shot
Magnetic Multi Shot

DATE
8/18/83
9/20/83

SURVEY BY
Gary DeSpain

OFFICE
West Texas

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT COOP. WELL NO. 5
LEA COUNTY, NEW MEXICO BD1-192
AUGUST 18, 1983

EASTMAN WHIPSTOCK, INC.
MAGNETIC MULTI SHOT SURVEY WT0883-S0311
SURVEYOR: GARY DESPAIN (0'-1591')
MAGNETIC MULTI SHOT SURVEY WT0983-S0028
SURVEYOR: GARY DESPAIN (1591'-4458')

VERTICAL SECTION CALCULATION

IN PLANE OF PROPOSED

DIRECTION: SURVEYED AS SHOWN

Eastman
Whipstock

A PETROLANE COMPANY

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT COOP. WELL NO. 5
LEA COUNTY, NEW MEXICO BD1-192

COMPUTATION PAGE NO. 1
TIME DATE
20:09:24 21-SEP-83

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00 0.00	0.00
90.	0 30	S 14 E	90.	90.00	0.21	0.38 S 0.10 E	0.56
121.	0 15	S 38 W	31.	121.00	0.38	0.57 S 0.05 E	1.28
152.	0 15	S 60 E	31.	152.00	0.45	0.69 S 0.08 E	1.22
182.	0 30	N 16 E	30.	182.00	0.29	0.63 S 0.24 E	2.04
213.	0 30	N 12 E	31.	213.00	0.06	0.36 S 0.30 E	0.11
244.	0 45	N 75 E	31.	243.99	-0.27	0.13 S 0.52 E	2.22
274.	0 45	N 34 E	30.	273.99	-0.64	0.09 N 0.83 E	1.75
305.	0 15	N 27 W	31.	304.99	-0.84	0.35 N 0.85 E	2.15
335.	0 30	N 83 E	30.	334.99	-1.00	0.50 N 0.93 E	2.10
397.	0 45	S 76 E	61.	396.97	-1.44	0.46 N 1.60 E	0.54
458.	0 15	S 66 E	61.	457.98	-1.61	0.28 N 2.10 E	0.83
519.	0 45	S 46 E	61.	518.98	-1.65	0.01 S 2.54 E	0.86
580.	0 30	S 30 E	61.	579.98	-1.65	0.53 S 2.95 E	0.50
611.	0 15	S 25 W	31.	610.98	-1.52	0.73 S 2.96 E	1.33
673.	1 0	S 35 E	62.	672.97	-1.09	1.37 S 3.02 E	1.45
734.	1 0	S 14 E	61.	733.96	-0.70	2.34 S 3.45 E	0.60
795.	1 0	S 5 E	61.	794.95	-0.06	3.39 S 3.63 E	0.26
856.	1 0	S 15 E	61.	855.94	0.57	4.43 S 3.81 E	0.29
917.	1 0	S 11 E	61.	916.94	1.16	5.47 S 4.05 E	0.11
979.	0 45	S 4 W	62.	978.93	1.80	6.41 S 4.11 E	0.54
1040.	1 0	S 6 E	61.	1039.92	2.46	7.34 S 4.13 E	0.48
1101.	1 0	S 40 W	61.	1100.91	3.38	8.33 S 3.82 E	1.28
1162.	1 0	S 19 W	61.	1161.90	4.41	9.25 S 3.30 E	0.60
1224.	1 30	S 48 W	62.	1223.89	5.73	10.37 S 2.56 E	1.28
1285.	1 30	S 32 W	61.	1284.87	7.32	11.59 S 1.54 E	0.68
1346.	1 30	S 14 W	61.	1345.85	8.80	13.05 S 0.92 E	0.77
1407.	1 0	S 44 W	61.	1406.83	10.08	14.20 S 0.28 E	1.32
1469.	0 30	S 76 W	62.	1468.83	10.84	14.60 S 0.41 W	1.02
1530.	0 45	S 18 W	61.	1529.82	11.48	15.04 S 0.88 W	1.06

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT COOP. WELL NO. 5
LEA COUNTY, NEW MEXICO BD1-192

COMPUTATION PAGE NO. 2
TIME DATE
20:09:24 21-SEP-83

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION 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
1591.	1 0	S 24 W	61.	1590.81	12.34	15.91 S	1.21 W	0.44
1689.	0 30	S 64 W	98.	1688.81	13.59	16.81 S	2.08 W	0.71
1751.	0 45	S 34 W	62.	1750.80	14.26	17.25 S	2.59 W	0.65
1845.	5 0	S 24 W	94.	1844.66	18.81	21.37 S	4.87 W	4.54
1938.	6 30	S 26 W	93.	1937.19	27.64	29.81 S	8.81 W	1.63
2031.	7 45	S 21 W	93.	2029.47	38.46	40.38 S	13.40 W	1.50
2125.	9 0	S 23 W	94.	2122.47	51.18	53.08 S	18.53 W	1.37
2218.	10 30	S 14 W	93.	2214.12	65.42	68.00 S	23.53 W	2.29
2311.	11 30	S 23 W	93.	2305.41	81.46	84.81 S	29.15 W	2.13
2405.	13 0	S 23 W	93.	2397.27	100.12	103.17 S	36.94 W	1.60
2498.	14 30	S 24 W	93.	2487.80	120.87	123.44 S	45.76 W	1.63
2591.	13 45	S 36 W	93.	2577.79	142.81	143.06 S	57.08 W	3.24
2685.	13 0	S 51 W	94.	2673.24	161.54	158.78 S	72.01 W	3.77
2778.	14 0	S 53 W	93.	2759.67	186.04	172.15 S	89.12 W	1.19
2871.	14 45	S 52 W	93.	2849.76	208.86	186.20 S	107.43 W	0.85
2965.	15 30	S 52 W	94.	2940.50	233.13	201.31 S	126.76 W	0.80
3058.	16 45	S 52 W	93.	3029.84	258.68	217.21 S	147.11 W	1.34
3151.	18 15	S 50 W	93.	3118.53	286.42	234.80 S	168.85 W	1.74
3245.	19 0	S 50 W	94.	3207.61	316.26	254.10 S	191.84 W	0.80
3338.	19 15	S 50 W	93.	3295.48	346.54	273.69 S	215.18 W	0.27
3431.	20 15	S 49 W	93.	3383.00	377.81	294.10 S	239.08 W	1.13
3525.	21 0	S 49 W	94.	3470.98	410.78	315.82 S	264.07 W	0.80
3618.	22 15	S 48 W	93.	3557.43	444.93	338.53 S	289.74 W	1.40
3711.	23 15	S 46 W	93.	3643.19	480.83	363.05 S	316.04 W	1.36
3805.	25 0	S 49 W	94.	3728.98	519.16	389.01 S	344.36 W	2.27
3898.	27 0	S 53 W	93.	3812.56	559.59	414.66 S	376.04 W	2.86
3991.	27 0	S 53 W	93.	3895.43	601.25	440.07 S	409.76 W	0.00
4085.	33 15	S 55 W	94.	3976.69	647.64	467.78 S	447.90 W	6.73
4178.	36 0	S 55 W	93.	4053.21	699.45	498.09 S	491.18 W	2.96
4271.	38 0	S 54 W	93.	4127.48	754.42	530.59 S	536.75 W	2.25

AMOCO PRODUCTION COMPANY
SOUTH HOBBS UNIT COOP. WELL NO. 5
LEA COUNTY, NEW MEXICO BD1-192

COMPUTATION PAGE NO. 3
TIME DATE
20:09:24 21-SEP-83

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
4365.	40 0	S 54 W	94.	4200.53	812.62	565.36 S 584.60 W	2.13
4458.	42 45	S 53 W	93.	4270.31	873.18	601.92 S 634.01 W	3.04

FINAL CLOSURE - DIRECTION: S 46 DEGS 29 MINS W
DISTANCE: 874.23 FEET

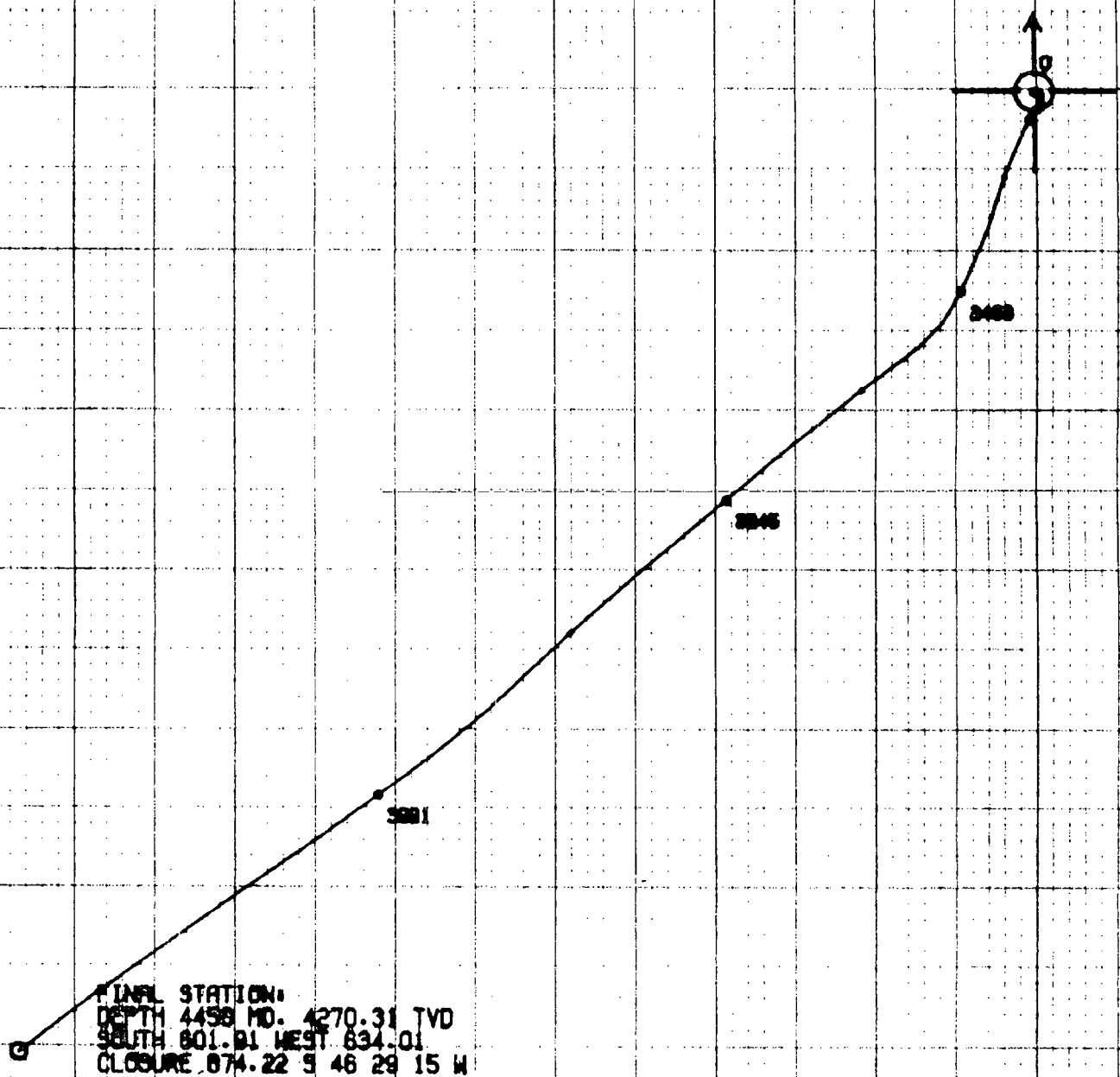
Eastman
Whipstock
A PETROLEUM COMPANY

AMCO PRODUCTION COMPANY
SOUTH HOBBS UNIT COOP. WELL NO. 5
LEA COUNTY, NEW MEXICO 801-192

EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION

SCALE 1 IN. = 100 FEET
DEPTH INDICATOR: MD





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 8-18, 1983 thru 8-18, 1983 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 0 feet to 1591 feet, with recordings of inclination and direction being obtained at approximate intervals of 62 feet.

This survey was conducted at the request of Amoco Production Company for their South Hobbs Unit Coop. Well No. 5 Lea County, State of New Mexico, in the field.

This data for this survey and the calculation 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.

Gary DeSpain
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 this day personally appeared Gary DeSpain, known to me to be the person whose name is subscribed to this 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 SEPT., 1983

Ray L. Steinf
Notary Public in and for the
County of Midland, Texas
My commission expires 7/9/85





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 9-20, 1983 thru 9-20, 1983 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 1591 feet to 4458 feet, with recordings of inclination and direction being obtained at approximate intervals of 93 feet.

This survey was conducted at the request of Amoco Production Company for their South Hobbs Unit Coop. Well No. 5 Lea County, State of New Mexico, in the field.

This data for this survey and the calculation 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.

Gary DeSpain
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.

Roy C. Strick

Before me, the undersigned authority, on this day personally appeared Gary DeSpain, known to me to be the person whose name is subscribed to this 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 Sept., 1983

Roy C. Strick
Notary Public in and for the
County of Midland, Texas
My commission expires 7/9/85

