

Form 9-331
Dec. 1973

N. M. OIL CONS. COMMISSION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1980' FNL & 2090' FWL, Sec. 19
AT TOP PROD. INTERVAL: (Unit F, SE/4, NW/4)
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Skid rig

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

RECEIVED
OCT 19 1981

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Due to irreparable hole problems which include stuck pipe, lost circulation at 550'-700' and heavy sands, we propose to P X A El Alto Grande #1 and skid rig 110' East to 1980' FNL and 2090' FWL. P X A well by the following method: top of fish is at 1400'. Set a cement plug from 1300'-1500'. Set a cement plug at 475'-575'. Set a 15 SX surface plug. (Verval approval George Stewart 10-15-81).

0+4-USGS, R 1-Hou 1-Susp 1-W. Stafford, Hou 1-GPM
1-Wexpro, Salt Lake City 1-Wexpro, Farmington

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED George A. Stewart TITLE Admin. Analyst DATE 10-16-81

AS Sgd. GEORGE A. STEWART
(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

OCT 19 1981
JAMES A. GILLHAM
DISTRICT SUPERVISOR

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 Co.			Lease El Alto Grande Unit		Well No. 1-Y
Unit Letter F	Section 19	Township 22 South	Range 34 East	County Lea	
Actual Footage Location of Well: 1980 feet from the NORTH line and 2090 feet from the WEST line					
Ground Level Elev. 3561.3	Producing Formation Devonian		Pool Wildcat Devonian	Dedicated Acreage: 320 Acres	

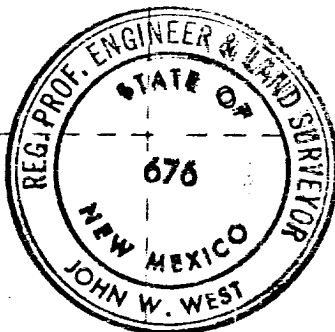
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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 Unitization

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.

Amoco NM-17441	1980'	Gulf NM-14334						
Working Interest: <table> <tr> <td>Amoco</td> <td>68.8917%</td> </tr> <tr> <td>Gulf</td> <td>31.1083</td> </tr> <tr> <td></td> <td>100.00%</td> </tr> </table>			Amoco	68.8917%	Gulf	31.1083		100.00%
Amoco	68.8917%							
Gulf	31.1083							
	100.00%							
Royalty Goes to U. S. Government								



CERTIFICATION

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

Name Guy Mitchell
Position Admin. Analyst

Company
Amoco Production Company

Date
10-16-81

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
8-3-81

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 8863
Ronald J. Eidson 3239

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

Amoco Production Company
COMPANY

EL Alton Grande No.1
WELL NAME

Lea County, New Mexico
LOCATION

JOB NUMBER

WT0382-G0274
WT0382-S0273

TYPE OF SURVEY

Gyroscopic Multishot
Magnetic Multishot

DATE

March 8, 1982
March 8, 1982

SURVEY BY
Gary DeSpain

OFFICE
West Texas

AMOCO PRODUCTION COMPANY
EL ALTON GRANDE WELL NO. 1
LEA COUNTY, NEW MEXICO
MARCH 8, 1982

BD1-423

EASTMAN WHIPSTOCK INC.

GYROSCOPIC MULTISHOT SURVEY

WT0382-G0274

SURVEYOR: GARY DESPAIN

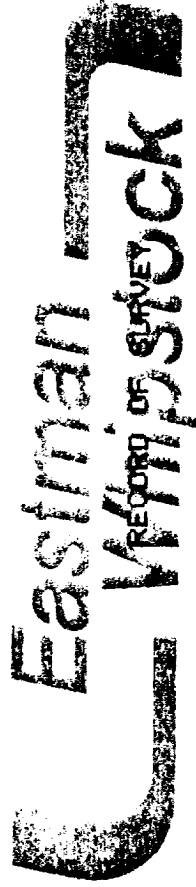
(0-11300')

MAGNETIC MULTISHOT SURVEY

WT0382-S0273

SURVEYOR: GARY DESPAIN

(11300'-12755')



RADIUS OF CURVATURE METHOD

BD1-423

COMPUTATION

PAGE NO. 1

TIME DATE

17:40:08 15-MAR-82

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 F E E T	D O G L E G S E V E R I T Y D G / 1 0 0 F T
0.	0 0	0	0.	0.00	0.00	0.00
100.	0 15	N 49 W	100.	100.00	0.14 N	0.16 W
200.	0 15	S 10 W	100.	200.00	0.02 N	0.50 W
300.	0 15	S 21 E	100.	300.00	0.41 S	0.46 W
400.	0 15	S 61 E	100.	400.00	0.73 S	0.18 W
500.	0 15	S 6 E	100.	500.00	1.08 S	0.05 E
600.	0 15	N 87 E	100.	599.99	1.34 S	0.35 E
700.	0 15	S 75 E	100.	699.99	1.38 S	0.78 E
800.	0 15	N 44 E	100.	799.99	1.27 S	1.18 E
900.	0 15	N 60 E	100.	899.99	1.00 S	1.53 E
1000.	0 30	N 60 E	100.	999.99	0.67 S	2.09 E
1100.	0 30	54 E	100.	999.99	0.20 S	2.83 E
1200.	0 30	52 E	100.	1099.98	0.13 N	3.52 E
1300.	0 45	53 E	100.	1299.98	0.13 N	4.39 E
1400.	1 0	49 E	100.	1399.98	0.13 N	5.57 E
1500.	1 15	N 55 E	100.	1499.95	3.16 N	7.12 E
1600.	1 30	N 55 E	100.	1599.92	4.53 N	9.09 E
1700.	2 0	N 57 E	100.	1699.87	6.24 N	11.62 E
1800.	2 0	N 54 E	100.	1799.81	8.22 N	14.49 E
1900.	2 15	N 53 E	100.	1899.74	10.42 N	17.47 E
2000.	2 15	N 51 E	100.	1999.66	12.84 N	20.57 E
2100.	2 15	N 59 E	100.	2099.59	15.09 N	23.78 E
2200.	2 15	N 63 E	100.	2199.51	16.99 N	27.21 E
2300.	1 45	N 60 E	100.	2299.45	18.66 N	30.28 E
2400.	2 0	N 60 E	100.	2399.39	20.30 N	33.12 E
2500.	1 45	N 63 E	100.	2499.34	21.86 N	36.00 E
2600.	1 45	N 62 E	100.	2599.29	23.27 N	38.70 E
2700.	1 45	N 56 E	100.	2699.25	24.84 N	41.32 E
2800.	2 0	N 62 E	100.	2799.19	26.53 N	44.13 E
2900.	2 0	N 61 E	100.	2899.13	28.19 N	47.19 E

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	DG/100FT SEVERITY
3000.	2 0	N 61 E	100.	2999.07	29.88 N 50.25 E	0.00
3100.	1 45	N 59 E	100.	3099.02	31.52 N 53.08 E	0.26
3200.	1 30	N 63 E	100.	3198.98	32.90 N 55.56 E	0.27
3300.	1 15	N 59 E	100.	3298.95	34.06 N 57.66 E	0.27
3400.	1 0	N 61 E	100.	3398.93	35.04 N 59.36 E	0.25
3500.	1 0	N 47 E	100.	3498.91	36.06 N 60.77 E	0.24
3600.	0 45	N 58 E	100.	3598.90	36.99 N 61.98 E	0.30
3700.	0 45	N 47 E	100.	3698.89	37.79 N 63.01 E	0.14
3800.	0 45	N 37 E	100.	3798.88	38.76 N 63.89 E	0.13
3900.	1 0	N 43 E	100.	3898.87	39.93 N 64.87 E	0.27
4000.	0 45	N 33 E	100.	3998.86	41.13 N 65.81 E	0.29
4100.	0 45	N 41 E	100.	4098.85	42.17 N 66.59 E	0.10
4200.	1 0	N 44 E	100.	4198.84	43.11 N 67.62 E	0.25
4300.	1 0	N 48 E	100.	4298.83	44.11 N 68.88 E	0.07
4400.	0 45	N 26 E	100.	4398.82	45.11 N 69.79 E	0.41
4500.	0 45	N 14 E	100.	4498.81	46.95 N 70.24 E	0.16
4600.	0 45	N 21 E	100.	4598.80	48.20 N 70.63 E	0.09
4700.	0 30	N 19 E	100.	4698.79	49.22 N 71.01 E	0.25
4800.	0 15	N 40 E	100.	4798.79	49.79 N 71.33 E	0.28
4900.	0 15	N 41 E	100.	4898.79	50.12 N 71.61 E	0.00
5000.	0 15	N 30 E	100.	4998.79	50.47 N 71.86 E	0.05
5100.	0 15	N 55 W	100.	5098.79	50.86 N 71.78 E	0.34
5200.	0 15	N 72 E	100.	5198.78	51.21 N 71.83 E	0.45
5300.	0 15	S 24 W	100.	5298.78	50.95 N 72.06 E	0.46
5400.	0 15	S 35 W	100.	5398.78	50.57 N 71.85 E	0.05
5500.	0 15	S 70 W	100.	5498.78	50.31 N 71.51 E	0.15
5600.	0 15	S 2 W	100.	5598.78	49.98 N 71.26 E	0.28
5700.	0 15	S 18 W	100.	5698.78	49.55 N 71.19 E	0.07
5800.	0 15	S 9 E	100.	5798.78	49.12 N 71.15 E	0.12
5900.	0 15	S 31 W	100.	5898.78	48.70 N 71.07 E	0.17

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
6000.	0 15	S 8 E	100.	5998.78	48.28 N 70.99 E	0.17
6100.	0 15	S 32 W	100.	6098.78	47.86 N 70.90 E	0.17
6200.	0 15	S 71 W	100.	6198.77	47.60 N 70.56 E	0.17
6300.	0 30	S 69 W	100.	6298.77	47.37 N 69.95 E	0.25
6400.	0 30	S 55 W	100.	6398.77	46.96 N 69.18 E	0.12
6500.	0 30	S 81 W	100.	6498.76	46.64 N 68.38 E	0.22
6600.	0 30	S 63 W	100.	6598.76	46.37 N 67.55 E	0.16
6700.	0 30	S 72 W	100.	6698.76	46.04 N 66.74 E	0.08
6800.	0 45	S 63 W	100.	6798.75	45.62 N 65.74 E	0.27
6900.	0 45	S 69 W	100.	6898.74	45.09 N 64.54 E	0.08
7000.	0 45	S 66 W	100.	6998.73	44.59 N 63.33 E	0.04
7100.	0 45	S 53 W	100.	7098.72	43.92 N 62.21 E	0.17
7200.	0 45	S 73 W	100.	7198.72	43.18 N 61.05 E	0.26
7300.	0 45	S 45 W	100.	7298.71	42.18 N 59.94 E	0.36
7400.	0 45	S 46 W	100.	7398.70	41.18 N 59.00 E	0.01
7500.	0 45	S 48 W	100.	7498.69	40.86 N 58.05 E	0.03
7600.	0 45	S 63 W	100.	7598.68	40.12 N 56.97 E	0.20
7700.	0 30	S 28 W	100.	7698.67	39.36 N 56.21 E	0.45
7800.	0 30	S 47 W	100.	7798.67	38.68 N 55.68 E	0.17
7900.	0 30	S 48 W	100.	7898.67	38.09 N 55.03 E	0.01
8000.	0 30	S 51 W	100.	7998.66	37.52 N 54.37 E	0.03
8100.	0 30	S 64 W	100.	8098.66	37.05 N 53.64 E	0.11
8200.	0 30	S 47 W	100.	8198.66	36.56 N 52.92 E	0.15
8300.	0 30	S 64 W	100.	8298.65	36.07 N 52.20 E	0.15
8400.	0 45	S 41 W	100.	8398.65	35.41 N 51.34 E	0.35
8500.	0 45	S 44 W	100.	8498.64	34.44 N 50.46 E	0.04
8600.	1 0	S 21 W	100.	8598.63	33.16 N 49.64 E	0.43
8700.	1 15	S 15 W	100.	8698.61	31.30 N 49.04 E	0.28
8800.	2 15	S 47 W	100.	8798.56	28.71 N 47.49 E	1.36
8900.	1 45	S 27 W	100.	8898.50	25.94 N 45.39 E	0.85

Eastman
Whipstock

BDI-423

TIME DATE

17:40:08 15-MAR-82

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
9000.	2 0	S 5 W	100.	8998.44	22.81 N 44.50 E	0.76
9100.	2 15	S 9 E	100.	9098.37	19.11 N 44.63 E	0.57
9200.	2 45	S 20 E	100.	9198.28	14.90 N 45.72 E	0.69
9300.	3 15	S 30 E	100.	9298.14	10.16 N 47.93 E	0.72
9400.	3 45	S 45 E	100.	9397.95	5.33 N 51.63 E	1.04
9500.	3 30	S 45 E	100.	9497.75	0.86 N 56.10 E	0.25
9600.	3 15	S 42 E	100.	9597.58	3.41 S 60.15 E	0.31
9700.	3 30	S 44 E	100.	9697.41	7.71 S 64.17 E	0.28
9800.	3 30	S 44 E	100.	9797.22	12.11 S 68.41 E	0.00
9900.	3 30	S 44 E	100.	9897.03	16.50 S 72.65 E	0.00
10000.	3 30	S 43 E	100.	9996.85	20.93 S 76.85 E	0.06
10100.	3 30	S 40 E	100.	10096.66	25.50 S 80.90 E	0.18
10200.	4 15	S 39 E	100.	10196.43	30.11 S 85.20 E	0.75
10300.	4 30	S 43 E	100.	10296.14	36.11 S 90.20 E	0.39
10400.	4 45	S 43 E	100.	10396.14	42.11 S 95.70 E	0.25
10500.	4 30	S 40 E	100.	10495.49	48.40 S 101.04 E	0.35
10600.	4 0	S 38 E	100.	10595.21	54.16 S 105.71 E	0.52
10700.	4 0	S 45 E	100.	10694.97	59.38 S 110.33 E	0.49
10800.	4 0	S 50 E	100.	10794.73	64.10 S 115.47 E	0.35
10900.	4 30	S 55 E	100.	10894.45	68.61 S 121.34 E	0.62
11000.	4 0	S 59 E	100.	10994.17	72.64 S 127.56 E	0.58
11100.	4 0	S 53 E	100.	11093.93	76.54 S 133.34 E	0.42
11200.	3 45	S 45 E	100.	11193.70	80.97 S 138.43 E	0.59
11300.	3 45	S 40 E	100.	11293.49	85.79 S 142.85 E	0.33
11400.	4 0	S 40 E	100.	11393.26	90.97 S 147.20 E	0.25
11500.	4 15	S 42 E	100.	11493.00	96.39 S 151.91 E	0.29
11600.	4 30	S 43 E	100.	11592.71	102.02 S 157.07 E	0.26
11700.	4 15	S 35 E	100.	11692.42	107.94 S 161.87 E	0.66
11800.	4 15	S 39 E	100.	11792.14	113.86 S 166.32 E	0.30
11900.	4 30	S 41 E	100.	11891.85	119.71 S 171.23 E	0.29

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE		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
				VERTICAL DEPTH FEET			
12000.	4 15	S 40 E	100.	11991.56		125.51 S 176.18 E	0.26
12100.	4 0	S 48 E	100.	12091.30		130.68 S 181.18 E	0.63
12200.	4 30	S 50 E	100.	12191.03		135.54 S 186.77 E	0.52
12300.	5 0	S 46 E	100.	12290.68		141.08 S 192.92 E	0.60
12400.	5 45	S 47 E	100.	12390.24		147.53 S 199.71 E	0.76
12500.	6 45	S 46 E	100.	12489.65		155.02 S 207.61 E	1.01
12600.	6 30	S 46 E	100.	12588.98		163.03 S 215.91 E	0.25
12700.	6 0	S 46 E	100.	12688.39		170.60 S 223.74 E	0.50
12755.	6 30	S 48 E	55.	12743.06		174.68 S 228.12 E	0.99

FINAL CLOSURE - DIRECTION: S 52 DEGS 33 MINS E
DISTANCE: 287.3 FEET

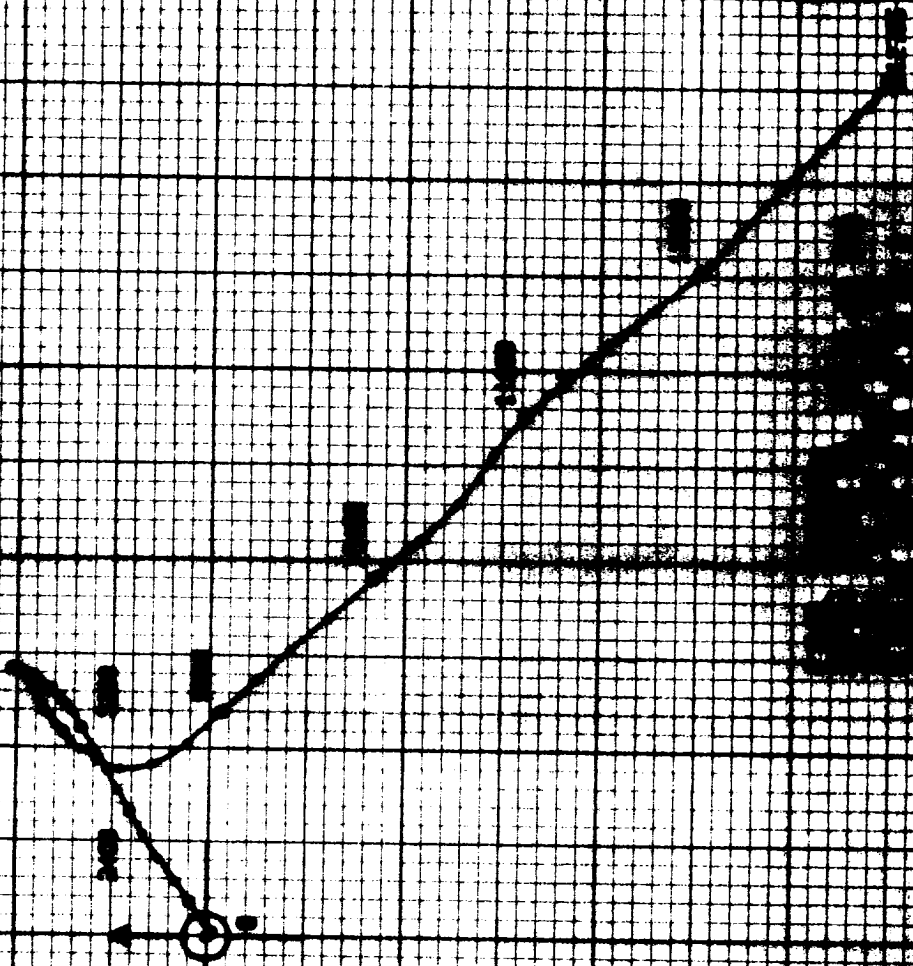
Eastman
Whipstock

100-1100

100-1100

100-1100

100-1100



**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-120
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

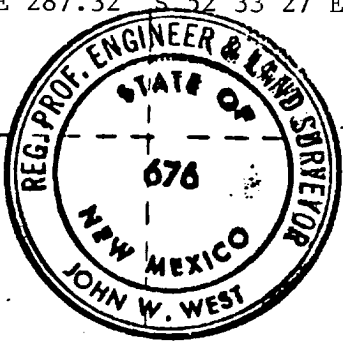
Operator Amoco Production Co.			Lease El Alto Grande Unit		Well No. 1-Y
Unit Letter F	Section 19	Township 22 South	Range 34 East	County Lea	
Actual Footage Location of Well: 1980 feet from the NORTH line and 2090 feet from the WEST line					
Ground Level Elev. 3561.3	Producing Formation Devonian		Pool Wildcat Devonian	Dedicated Acreage 320 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 Unitization

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.

Amoco NM-17441 1980' 330'	Gulf NM-14334						
<u>Working Interest:</u> <table style="width:100%;"> <tr> <td>Amoco</td> <td align="right">68.8917%</td> </tr> <tr> <td>Gulf</td> <td align="right">31.1083</td> </tr> <tr> <td></td> <td align="right"><u>100.00%</u></td> </tr> </table>	Amoco	68.8917%	Gulf	31.1083		<u>100.00%</u>	FINAL STATION: DEPTH 12755 MD 12743.05 TVD SOUTH 174.32 EAST 228.12 CLOSURE 287.32 S 52 33 27 E
Amoco	68.8917%						
Gulf	31.1083						
	<u>100.00%</u>						
<u>Royalty</u> Goes to U. S. Government							

CERTIFICATION

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

Name Greg Mitchell
Position Admin. Analyst

Company Amoco Production Company

Date 10-16-81

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 8-3-81

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6668
Ronald J. Eldson 3239





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 March 7, 1982 thru March 8, 1982 conduct or supervise the taking of a Gyroscopic Multi Shot survey by the method of magnetic orientation from a depth of 0 feet to 11,300 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of Amoco Production for their E.L. Alton Grande No. 1, Lea County, State of New Mexico, in the field.

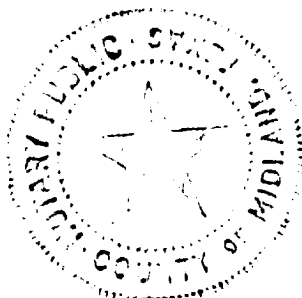
The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

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.

Walter J. [Signature]
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, instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 10TH day of JUNE, 1982



Ray C. Stank
Notary Public in and for the County
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

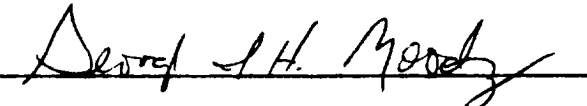
I, Gary DeSpain in the employ of Eastman Whipstock, Inc. did on the days of March 8, 19 82 thru March 8, 19 82 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 11,300 feet to 12,755 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of Amoco Production for their E.L. Alton Grande No. 1, Lea County, State of New Mexico, in the _____ field.

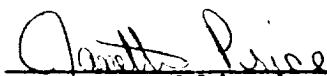
The data for this survey and the calculations were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.


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, instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 24th day of June, 19 82.


Notary Public in and for the County
Midland, Texas
My commission expires 10/31/84

RE-ISSUED COMPLETION

COUNTY LEA FIELD Wildcat

OPR AMOCO PRODUCTION CO. STATE NM

1-Y LEASE El Alto Grande API 30-025-27625

Sec 19, T22S, R34E MAP

1980 FNL, 2090 FWL of Sec COORD

18 mi SE/Halfway 1-3-50 NM

CSC SPD 10-23-81 CMP*5-11-83

20-1882-4800 sx WELL CLASS: INIT WF FIN *WF LSE CODE

13 3/8-5100-5150 sx

9 5/8-11,270-3600 sx

5 1/2-lnr-10,751-14,270-1050 SX

FORMATION	DATUM	FORMATION	DATUM

ID 14,270 (DVNN) PBD

*DRY & ABANDONED

CONTR Moranco #1

OPRSILEV 3561 GL sub-s 23

F.R. 11-9-81

PD 15,100 RT (Devonian)

(Replacement well for #1, J&A 10-20-81)

TD 1885; DOC

Drlg 2612 anhy & salt

mw 9.2, vis 29, bit #7 (17 1/2-SDT)

Drlg 3967

mw 9.8

TD 4871; Rmg

Drlg break 4072-83

TD 5100; Circ & Cond Mud

TD 5100; ND BOP

Drlg 6790 lm & sd

mw 9.2, vis 29

Drlg 8345 lm & sd

mw 9.2, vis 29, bit #12 (12 1/4-F4)

1-3-50 NM

11-5-81

11-13-81

12-1-81

12-4-81

12-11-81

12-21-81

12-31-81

1-6-82

LEA

AMOCO PRODUCTION CO.

Wildcat
1-Y El Alto Grande
Sec 19, T2S, R34E

NM

Page #2

1-14-82

Drlg 9722 1m

mw 9.1, vis 29

1-22-82

Drlg 9974 1m & sd

mw 9.3, vis 29, bit #14 (12 1/4-J44)

Drlg break 9740-69

DST (Bone Spring) 952-9769, op 1 hr

6 mins, DP rec (NA), 1 hr 7 min ISIP

201, FP 99-107, 2 hr FSIP 132, HP 4678-

4693

1-29-82

Drlg 10,732 1m & sd

mw 9.3, vis 29, bit #16 (12 1/4-F57)

Drlg break 10,111-119

TD 11,270; Rng 9 5/8 Csg

1-3-50 NM

2-4-82

2-12-82

Drlg 11,461 1m

mw 10.7, vis 38, bit #17 (8 1/2-J55)

TD 11,984; Trip

2-19-82

mw 11.1, vis 37, bit #19 (8 1/2-F5)

TD 12,427; Trip

2-25-82

Drlg 12,724 1m

mw 11.2, vis 36, bit #23 (8 1/2-J55R)

3-4-82

Drlg 13,030 1m & sh

mw 11.4, vis 35, bit #23 (8 1/2-J55R)

3-12-82

Drlg break 12,730-761

DST (Pennsylvanian) 12,706-761, op 1 hr

5 mins, rec 3000 FT WCUSH (Sampler rec

3.55 CFT GAS @ 150#), 1 hr ISIP 3030, FP

1414-1400, 2 hr FSIP 3276, HP 7448-7476

3-19-82

Drlg 13,024 1m & sh

mw 11.3, vis 37, bit #26 (8 1/2-J55R)

1-3-50 NM

LEA
AMOCO PRODUCTION CO.

Wildcat
1-Y El Alto Grande
Sec 19, T22S, R34E

NM
Page #3

3-26-82 TD 13,660; Circ
mw 11.6, vis 39, bit #27 (8 1/2-J55)
Drlg breaks 13,632-637, no flow, 13,645-
660, Flwg 1 IN stream-burning 12-15 FT
horz flare & 20-35 FT vert flare
3-31-82 Drlg 13,785 lm & sh
mw 12, vis 43, bit #27
DST (Mississippian) 13,651-671, op 2 hrs
15 mins, rec 15 FT SWTROCOND + 3700 FT
WCUSH (Sampler rec 9.25 CFT GAS + 800 CC
WTR), 4 hr 51 min ISIP 4282, FP 2339-2435,
6 hr FSIP 6508, HP 8638-8565
4-7-82 Drlg 14,166 sd & sh
mw 12.6, vis 41, bit #28 (8 1/2-F5)
1-3-50 NM

4-7-82 Continued
Drlg breaks 13,858-870, 14,055-068,
14,101-119
4-15-82 TD 14,270; DOC @ 10,720
mw 12.6, vis 50
4-23-82 TD 14,270; WOCT
4-30-82 TD 14,270; Rng bit & Tbg
5-7-82 TD 14,270; PBD 14,012; Swbg
Perf (Mississippian) 13,631-673
Swbd 35 BW w/NS in 3 hrs (13,631-673)
5-14-82 TD 14,270; PBD 14,012; Swbg
Acid (13,631-673) 3500 gals + 136,000
SCF N2
Swbd 25 BLW in 2 hrs (13,631-673)
1-3-50 NM

LEA

AMOCO PRODUCTION CO.

Wildcat
1-Y El Alto Grande
Sec 19, T2S, R34E

NM

Page #4

5-17-82 TD 14,270; PBD 14,012; SI Eval
Swbd 12 BW w/SSG in 9 hrs (13,631-673)
7-9-82 TD 14,270; PBD 13,520; Swbg
Ret @ 13,520
Sqzd (13,631-673) 100 sx
Perf (Atoka) 12,726-763 w/2 SPF
Swbd 70 BW w/SSG in 7 hrs (12,726-763)
Acid (12,726-763) 4000 gals
Swbd 90 BLW w/SSG in 7 hrs (12,726-763)
8-5-82 TD 14,270; PBD 13,520; SI Eval
Swbd 20 BO + 1 BW w/6-8 FT flare &
swbd dry (12,726-763)
9-10-82 TD 14,270; PBD 13,520; Flwg
Flwd 4 BO + 1 BW + 80 MCFGPD in 20 hrs
1-3-50 NM

9-10-82 Continued
thru 8/64 chk, TD 190 (12,726-763)
9-23-82 TD 14,270; PBD 13,520; SIBHP
Flwd 8 BC + 1 BW + 96 MCFGPD in 24 hrs
thru 8/64 chk, TD 340 (12,726-763)
9-30-82 TD 14,270; PBD 13,520; SI Eval
*4-27-83 TD 14,270; PBD 13,520; Plg Tbg
*4-28-83 TD 14,270; PBD 10,500; Rng Tbg
*CIBP @ 10,500
*5-6-83 TD 14,270; PBD 4987; Plg Csg
*PB to 4987
*6-6-83 TD 14,270; Dry Abandoned
*LOG TOPS: Delaware 5180, Bone Spring
8446, Wolfcamp 11,170, Strawn 12,422,
Atoka 12,657, Morrow 12,876
1-3-50 NM

LEA
AMOCO PRODUCTION CO.

Wildcat
1-Y El Alto Grande
Sec 19, T22S, R34E

NM
Page #5

*6-6-83

Continued
LOGS RUN: SONL, GRL, CORL, *BHC,
*DILL, *CNDL
Rig Released 4-21-82

*Denotes changes & additions

1-15-83

6-11-83

TEMPORARY COMPLETION ISSUED
RE-ISSUE OF SUSPENDED COMPLETION

1-3-50 NM
IC 30-025-70612-81

1

(

STATE NM

API 30-025-27625

MAP

(C). (MRD)

1-3-50 NM

SPI 10-23-81 (MP 1-10-83)

35.

WELL CLASS: INIT WF FIN SUSLSE. CODE

FORMATION

DATUM

FORMATION

DATUM

0 35

2	27,0	244	20,752	21,270	10,50	525
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TD	14,270 (DVNN)	PBD	13,520
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SUSPENDED OPERATIONS

sub-s 23

1-3-50 NM

1-4-82 Drlg 9722 lm
mw 9.1, vis 29
1-12-82 Drlg 9974 lm & sd
mw 9.3, vis 29, bit #14, (12 1/4-J44)
Drlg break 9740-69
DST (Bone Spring) 9652-9769, op
1 hr 6 mins, DP rec (NA), 1 hr 7 min. ISIP
201, FP 99-107, 2 hr FSIP 132, HP 4678-4693
1-19-82 Drlg 10,732 lm & sd
mw 9.3, vis 29, bit #16 (12 1/4-F57)
Drlg break 10,111-119
2-4-82 TD 11,270; Rng 9 5/8 Csg

1-3-50 NM

2-12-82 Drlg 11,461 sh
mw 10.7, vis 38, bit #17 (8 1/2-J55)
2-19-82 TD 11,984; Trip
mw 11.1, vis 37, bit #19 (8 1/2-F5)
2-25-82 TD 12,427; Trip
3-4-82 Drlg 12,724 lm
mw 11.2, vis 36, bit #23 (8 1/2-J55R)
3-12-82 Drlg 13,030 lm & sh
mw 11.4, vis 35, bit #23 (8 1/2-J55R)
Drlg break 12,730-761
DST (Pennsylvanian) 12,706-761,
op 1 hr 5 mins, rec 3000 FT WCUSH (Sampler
rec 3.55 CFT GAS at 150#), 1 hr ISIP 3030,
FP 1414-1403, 2 hr FSIP 3276 HP 7448-7476

1-3-50 NM

LEA

AMOCO PRODUCTION CO.

Wildcat

1-Y El Alto Grande
Sec 19, T22S, R34E

NM
Page #3

3-19-82

Drlg 13,424 lm & sh
mw 11.3, vis 37, bit #26 (8 1/2-J55R)
TD 13,660; Circ

3-26-82

mw 11.6, vis 39, bit #27 (8 1/2-J55)
Drlg breaks 13,632-637, no flow, 13,645-660,
Flwg 1 in stream-burning 12-15 FT horizon
flare & 20-35 FT vertical flare

3-31-82

Drlg 13,785 lm & sh
mw 12, vis 43, bit #27
DST (Mississippian) 13,651-671, op 2 hrs
15 mins, rec 15 FT SWTRC COND + 3700 FT
WCUSH (Sampler rec 9.25 CFT GAS + 800 CC
WTR), 4 hr 51 min, ISIP 4282, FP 2339-2435,
6 hr FSIP 6508, HP 8638,8565

1-3-50 NM

4-7-82

Drlg 14,166 sd & sh
mw 12.6, vis 41, bit #28 (8 1/2-F5)
Drlg breaks 13,858-870, 14,055-068, 14,101-
119

4-15-82

TD 14,270; DOC at 10,720
mw 12.6, vis 50

4-23-82

TD 14,270; WOCT

4-30-82

TD 14,270; Rng bit & Tbg

5-7-82

TD 14,270; PBD 14,012; Swbg

5-14-82

Perf (Mississippian) 13,631-673
Swbd 35 BW w/NS in 3 hrs (13,631-673)

5-17-82

TD 14,270; PBD 14,012; Swbg
Acid (13,631-673) 3500 gals + 136,000 SCFN2
Swbd 25 BLW in 2 hrs (13,631-673)
TD 14,270; PBD 14,012; SI Eval
Swbd 12 BW w/SSC in 9 hrs (13,631-673)

1-3-50 NM

LEA

AMOCO PRODUCTION CO.

Wildcat
1-Y El Alto Grande
Sec 9, T22S, R34E

NM
Page #4

7-9-82

TD 14,270; PBD 13,520; Swbg
Ret at 13,520
Sqzd (13,631-673) 100 sx
Perf (Atoka) 12,726-763 w/2 SPF
Swbd 70 BW w/SS in 5 hrs (12,726-763)
Acid (12,726-763) 4000 gals
Swbd 90 BLW w/SS in 7 hrs (12,726-763)

8-5-82

TD 14,270; PBD 13,520; SI Eval
Swbd 20 BO + 1 BW w/6-8
FT flare & swbd dry (12-726-763)

9-10-82

TD 14,270; PBD 13,520; Flwg
Flwd 4 BC + BW + 80 MCFGPD in 20 hrs thru
8/64 chk, TP 100 (12,726-763)

9-23-82

1-3-50 NM

9-23-82

TD 14,270; PBD 13,520; SIBHP
Flwd 8 BC + 1 BW + 96
MCFGPD in 24 hrs thru 8/64 chk, TP 340
(12,726-763)

9-30-82

TD 14,270; PBD 13,520; SI Eval
TD 14,270; PBD 13,520; Suspended Operations

1-10-83

LOGS RUN: SONL, GRL, CORL
Rig Released 4-21-82

1-15-83

TEMPORARY COMPLETION ISSUED

1-3-50 NM
IC 30-025-70612-81

Petroleum Information.

COUNTY LEA

FIELD Wildcat

OPR AMOCO PRODUCTION CO.
NO 1-V LEASE E1 Alto Grande
Sec 19, T22S, R34E
1980 ENL, 2090 FWL of Sec
18 mi SE/Halfway

STATE NM

API 30-025-27625

MAP

COORD

SPD 10-23-81

CMP

WELL CLASS: INIT WF FIN				LSE CODE	
FORMATION	DATUM	FORMATION	DATUM		
TD					
				PBD	

20-1882-4800_{sw}
133/8-5100-5150_{sw}
958-11,270-3600_{sw}
5/2-Inr-10,751-14,270-1050_{sw}

CONTR Moranco #1

RR 4-21-82

F.R. 11-9-81

OPR 3561 GL

PD 15,100 RT (Devonian)

sub-s SONL, GRL, CORL

(Replacement well for #1, J&A 10-20-81)

11-5-81 TD 1885; DCC
11-13-81 Ø 2612 anhy & salt
Mud wt 9.2, vis 29, bit #7 (17½ - SDT)
12-1-81 Ø 3967
Mud wt 9.8;
12-4-81 TD 4871; Rmg
Drlg break 4072-83
12-11-81 TD 5100; Circ & cond. mud.
12-21-81 TD 5100; ND BOP
12-31-81 Ø 6790 lrm & od
mw 9.2, vis 29
1-6-82 Ø 8345 lrm & od
mw 9.2, vis 29 bit #12 (12¼ - F)

(OVER)

IC 30-025-70612-81

LEA
AMOCO

Wildcat
1-Y El Alto Grande
Sec 19, T22S, R34E

NM
Pg 2

1-14-82 Ø 9722 lm
Mud wt 9.1, vis 29

1-22-82 Ø 9744 lm & sd
mud wt 9.3, vis 29, bit #14 (12¼-J44)
Drly break 9740-69
DST () 9652-9769, op
1 hr 6 mins, DP sec (NA), 1 hr 7 min ISIP
251, FP 19-107 2hr FSIP 132,
11 4670-4693

1-29-82 Ø 10,732 lm & sd
mud wt 9.3, vis 29, bit #16 (12¼-F57)
Drly break 10,111-119

2-4-82 ID 11,270; Rng 9⁵/₈ csg

2-12-82 Ø 11,461 sh
mud wt 10.7, vis 38, bit #17 (8½-J55)

2-19-82 ID 11,984; sh
mud wt 11.1 vis 37, bit #19 (8½-F5)

2-25-82 ID 12,427; sh

3-4-82 Ø 12,724 lm
mud wt 11.2, vis 36, bit #23 (8½-J55R)

LEA
AMOCO

Wildcat
1-Y El Alto Grande
Sec 19, T22S, R34E

NM
Pg 3

3-12-82 Ø 13,030 dm & sh
mw 11.4, vis 35, bit #23 (8½-J55R)
Drlg break 12,730-761
DST() 12,706-761,
op 1 hr 5 mins, rec 3000 FT
WCUSH (Sampler rec 3.55 CFT
GAS @ 150#), 1 hr ISIP 3030,
FP 1414-1403, 2 hr FSIP 3276,
HP 7448-7476

3-19-82 Ø 13,424 dm & sh
mw 11.3, vis 37, bit #24
(8½-J55R)

3-26-82 Ø 13,460 dm & sh
mw 11.6, vis 31, bit #27 (8½-J55R)
Drlg breaks 13,632-637, NO Flow;
13,645-660, Flow 1 IN stream - burning
12-15 FT horiz Flare & 20-35 FT
Vert Flare

3-31-82 Ø 13,785 dm & sh
mw 12, vis 43, bit #27
DST() 13,651-671, Op 2 hrs
15 mins, rec 15 FT SWTRC COND
+ 3700 FT WCUSH (Sampler rec
3.25 CFT GAS @ 800 CC) + 1000
FT WCUSH (Sampler rec 3.25 CFT
GAS @ 800 CC) + 1000 FT
2435, 10 hr FSIP 6506, NP 8565

LEA
AMOCO

Wildcat
1-Y El Alto
Grande
Sec 19, T22S, R34E

NM
Pg 4

4-7-82 Ø 14,166 sd & sd
mm 12.6, vis 41, bit # 28
(8 1/2 - F5)

Wdg breaks 13,858-870,
14,055-068, 14,101-119

4-15-82 TD 14,270, DOC @ 10,720
mm 12.6, vis 50

4-23-82 TD 14,270; WCLL

4-30-82 TD 14,270 Rng bit & Tdg

5-7-82 TD 14,270; PBD 14,012; Swbg
Perf() 13,631-673
Swbd 35 BW w/NS in 3
hrs (13,631-673)

5-14-82 TD 14,270; PBD 14,012; Swbg
Acid (13,631-673) 3500 gals
+ 136,000 SCF N₂

Swbd 25 BW in 2 hrs (13,631-673)

5-17-82 TD 14,270; PBD 14,012; SI Eval
Swbd 12 BW w/SSG in 9 hrs
(13,631-673)

- cont'd -

LEA
Amoco

Wildcat
1-4 El Alto Grande (5)
Sec 19, T22S, R34E

NOM

7-9-82 TD 14,270; PBD 13,520; Swbg

Ret @ 13,520

Sg3d (13,631-763)-100sx

Perf (Atoka) 12,726-763 w/2SPF

Swbd 70 BW w/SSG in 5hrs

(12,726-763)

Acid (12,726-763) 4000gals

Swbd 90 BLW w/SSG in 7hrs

(12,726-763)

