

SCIENTIFIC DRILLING

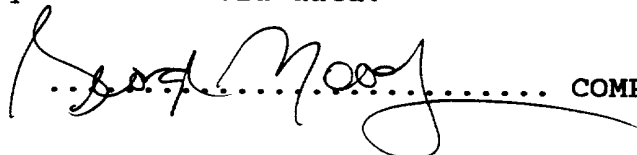
MIDLAND, TEXAS

ARCO OIL AND GAS

3D-D25-32046

Well Name	:	SOUTH JUSTISS UNIT G #182	Unit N
Location	:	LEA COUNTY, NEW MEXICO	
SHL	:	200 FSL & 2000 FWL	13-25-37
BHL	:	35 FSL & 2504 FEET	2696/w
ACTUAL BHL	:		
Date Surveyed	:	10-09-93	
Job Number	:		
Survey Performed By	:	CHARLES WOOLFOLK	

This survey is correct to the best of my knowledge
and is supported by actual field data.

 COMPANY REPRESENTATIVE

SCIENTIFIC DRILLING

Client : ARCO OIL AND GAS
Well Name : SOUTH JUSTISS UNIT G #182
Location : LEA COUNTY, NEW MEXICO
SHL :
BHL :
ACTUAL BHL :
Height Of WELLSITE Datum Above Field Datum 0.00 ft

Page 1 of 2
Date 10-09-93
Filename : SJUST182

No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
0.0	0.00	N 0.00°E	0.00	0.00	0.00	0.00	0.0
100.0	0.38	N70.46°W	100.00	0.11	-0.31	-0.33	0.4
200.0	0.55	N78.18°W	200.00	0.32	-1.09	-1.14	0.2
300.0	0.40	N67.67°W	299.99	0.55	-1.89	-1.96	0.2
400.0	0.35	N16.03°E	399.99	0.98	-2.13	-2.29	0.5
500.0	0.47	N16.93°E	499.99	1.66	-1.92	-2.24	0.1
600.0	0.23	N22.18°W	599.99	2.24	-1.88	-2.32	0.3
700.0	0.55	N10.47°W	699.98	2.90	-2.04	-2.62	0.3
800.0	0.58	N35.76°E	799.98	3.78	-1.83	-2.61	0.4
900.0	0.62	N43.36°E	899.97	4.59	-1.17	-2.13	0.1
1000.0	0.73	N27.28°E	999.97	5.55	-0.50	-1.69	0.2
1100.0	0.28	N43.03°E	1099.96	6.29	-0.04	-1.40	0.5
1200.0	0.64	N13.53°E	1199.96	7.01	0.25	-1.27	0.4
1300.0	0.97	N28.54°E	1299.95	8.30	0.79	-1.02	0.4
1400.0	1.31	N58.79°E	1399.93	9.63	2.17	0.00	0.7
1500.0	1.34	N64.18°E	1499.90	10.74	4.20	1.79	0.1
1600.0	1.89	N47.17°E	1599.86	12.37	6.46	3.64	0.7
1700.0	3.36	N43.60°E	1699.76	15.61	9.69	6.10	1.5
1800.0	4.37	N44.30°E	1799.53	20.46	14.38	9.62	1.0
1900.0	4.46	N50.07°E	1899.23	25.68	20.02	14.01	0.5
2000.0	4.49	N48.30°E	1998.93	30.78	25.92	18.67	0.1
2100.0	3.82	N58.99°E	2098.67	35.10	31.70	23.38	1.0
2200.0	3.09	N63.42°E	2198.48	38.02	36.97	27.89	0.8
2300.0	2.35	N67.82°E	2298.37	40.00	41.27	31.67	0.8
2383.0	1.80	N79.47°E	2381.31	40.88	44.13	34.27	0.8
2460.0	1.50	N81.50°E	2458.28	41.25	46.32	36.33	0.4
2526.0	1.90	N85.10°E	2524.25	41.47	48.26	38.18	0.6
2590.0	3.10	N88.60°E	2588.19	41.61	51.05	40.87	1.9
2652.0	4.40	S84.00°E	2650.06	41.40	55.09	44.86	2.2
2714.0	5.60	S79.10°E	2711.82	40.58	60.43	50.25	2.1
2778.0	6.80	S72.00°E	2775.45	38.82	67.10	57.14	2.2
2842.0	7.80	S71.00°E	2838.93	36.23	74.81	65.23	1.6
2905.0	8.80	S74.00°E	2901.27	33.51	83.48	74.28	1.7
2968.0	10.10	S74.00°E	2963.41	30.66	93.42	84.61	2.1
3029.0	11.00	S72.00°E	3023.38	27.39	104.10	95.74	1.6
3080.0	11.90	S73.00°E	3073.36	24.35	113.76	105.82	1.8
3194.0	13.00	S73.00°E	3184.68	17.16	137.26	130.32	1.0
3322.0	13.75	S73.00°E	3309.21	8.51	165.57	159.84	0.6
3479.0	14.50	S73.00°E	3461.46	-2.70	202.21	198.03	0.5
3675.0	14.50	S83.00°E	3651.25	-12.86	250.04	246.93	1.3

SCIENTIFIC DRILLING

Client : ARCO OIL AND GAS
 Well Name : SOUTH JUSTISS UNIT G #182
 Location : LEA COUNTY, NEW MEXICO
 SHL :
 BHL :
 ACTUAL BHL :

Page 2 of 2
 Date 10-09-93
 Filename : SJUST182

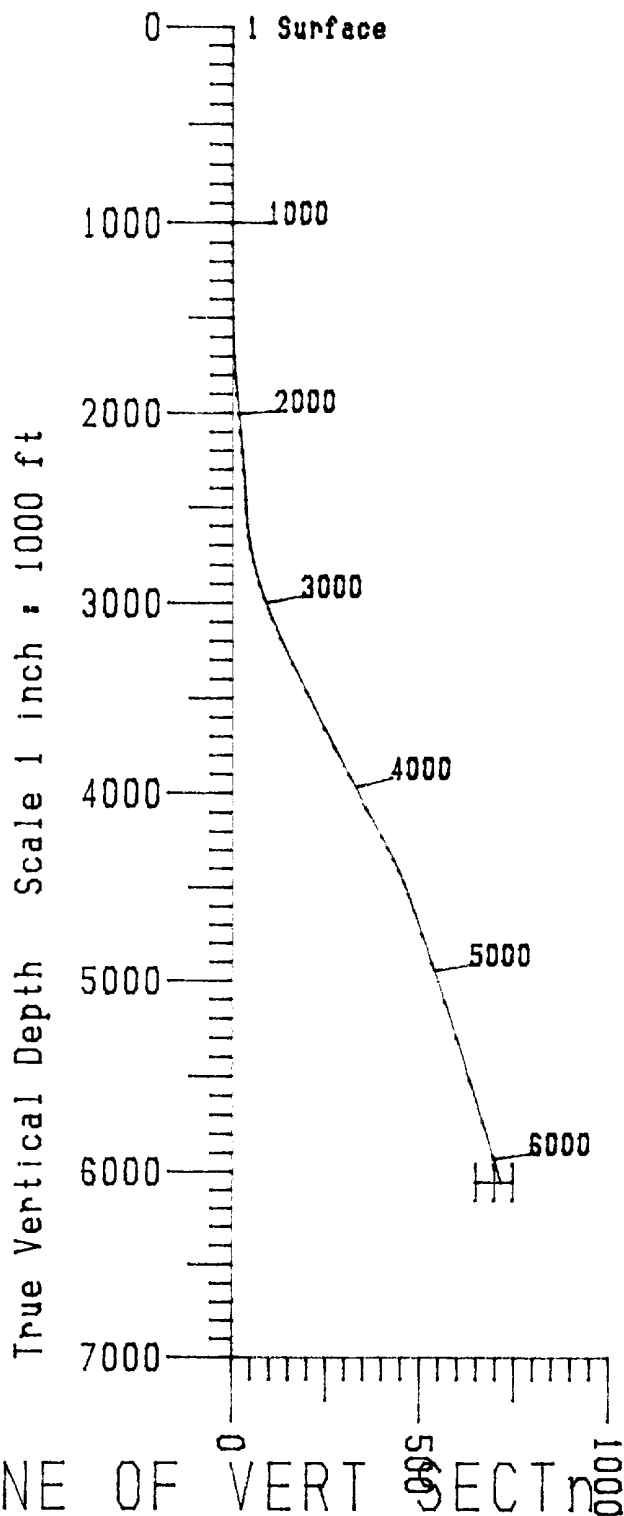
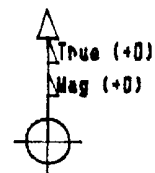
Height Of WELLSITE Datum Above Field Datum 0.00 ft No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
3779.0	14.75	S84.00°E	3751.88	-15.83	276.13	273.04	0.3
3925.0	15.00	S85.00°E	3892.99	-19.42	313.44	310.25	0.2
4111.0	15.00	S86.00°E	4072.65	-23.20	361.43	357.92	0.1
4266.0	16.00	S89.00°E	4222.01	-24.97	402.80	398.70	0.8
4330.0	14.75	N90.00°E	4283.72	-25.13	419.76	415.30	2.0
4392.0	13.60	S86.00°E	4343.83	-25.63	434.93	430.22	2.4
4455.0	12.70	S79.00°E	4405.19	-27.47	449.12	444.47	2.9
4518.0	11.60	S73.00°E	4466.77	-30.65	461.97	457.70	2.7
4581.0	10.50	S66.00°E	4528.61	-34.83	473.28	469.64	2.8
4671.0	10.00	S57.00°E	4617.18	-42.42	487.32	485.00	1.9
4797.0	10.00	S59.00°E	4741.26	-54.02	505.87	505.61	0.3
4954.0	10.00	S58.00°E	4895.88	-68.26	529.12	531.38	0.1
5170.0	10.00	S60.00°E	5108.60	-87.58	561.26	566.94	0.2
5359.0	9.75	S58.00°E	5294.80	-104.26	589.05	597.67	0.2
5580.0	9.25	S61.00°E	5512.77	-122.79	620.45	632.33	0.3
5800.0	9.25	S61.00°E	5729.91	-139.93	651.38	666.23	0.0
5984.0	9.00	S61.00°E	5911.58	-154.08	676.90	694.20	0.1
6125.0	9.00	S61.00°E	6050.84	-164.77	696.20	715.35	0.0

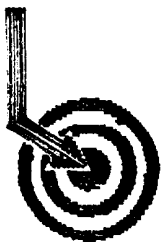
Origin of Bottom Hole Closure WELLSITE CENTRE
 Bottom Hole Closure 715 ft 103.3°



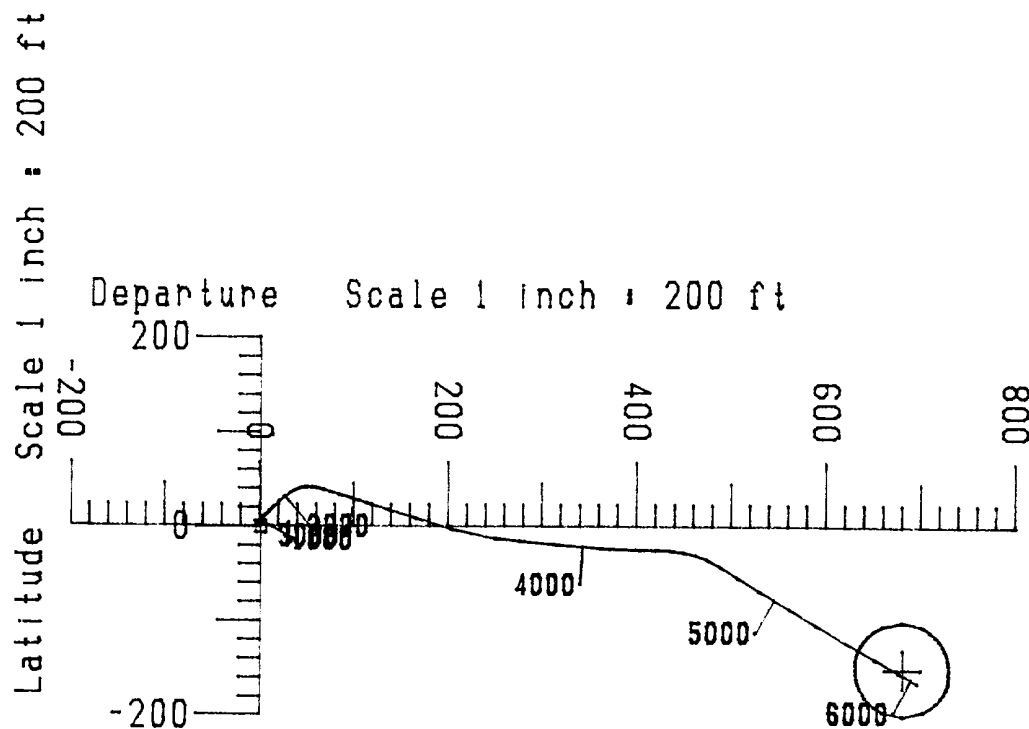
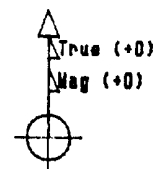
SCIENTIFIC DRILLING INTERNATIONAL
for
ARCO OIL AND GAS
JUSTIS UNIT 6 8102
in
LEA COUNTY, NEW MEXICO



Tgt 1 Rad 50



SCIENTIFIC DRILLING INTERNATIONAL
for
ARCO OIL AND GAS
JUSTIS UNIT G #102
in
LEA COUNTY, NEW MEXICO



PLANE OF VERT SECTn S77.54E

Submit to Appropriate
District Office
Late Lease - 4 copies
Early Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

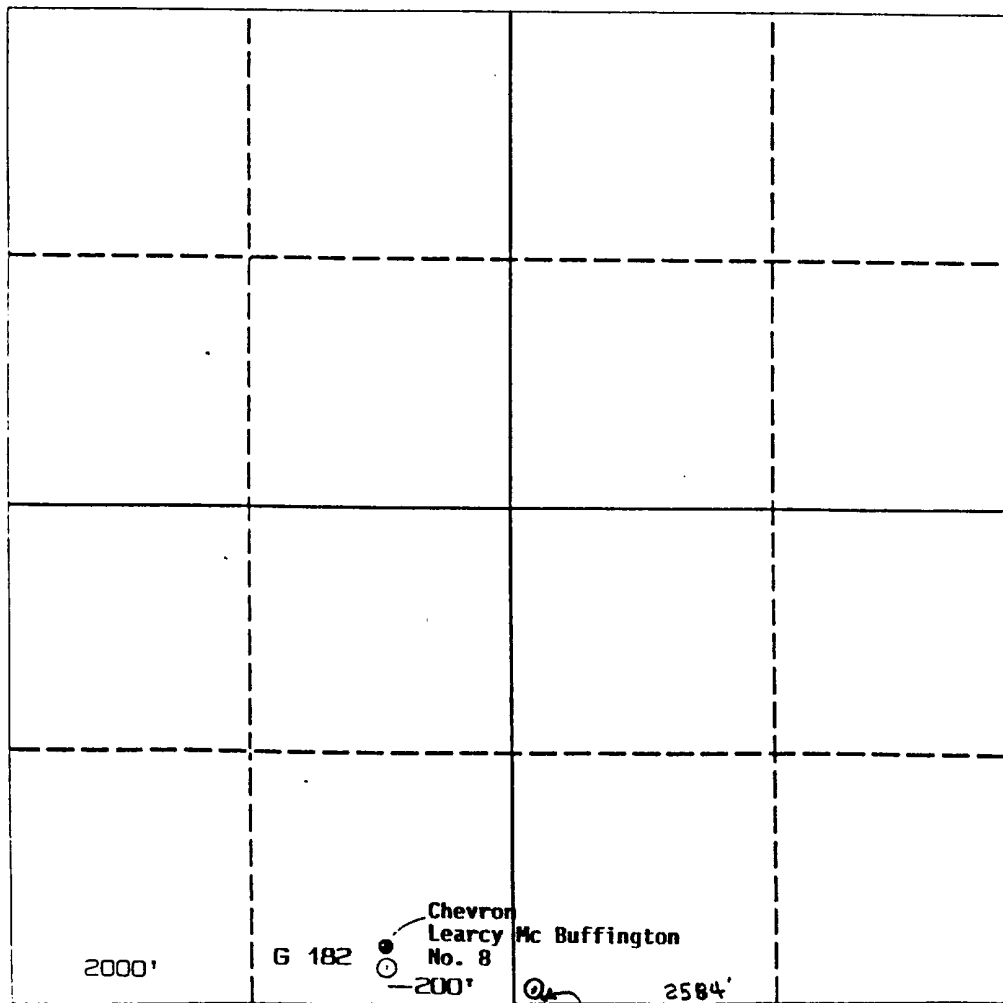
DISTRICT III
600 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator ARCO OIL AND GAS COMPANY			Lease South Justis Unit "G"			Well No. 182		
Unit Letter N	Section 13	Township 25 S	Range 37 E	County NMPM	Dedicated Acreage: 40 Acres			
Actual Footage Location of Well: 200 feet from the South line and 2000 feet from the West line								
Ground level Elev. 3079'		Producing Formation Blinberry-Tubb-Drinkard		Pool Justis		Dedicated Acreage: 40 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature
Ken W. Gosnell
Printed Name
Ken W. Gosnell
Position
Agent
Company
ARCO Oil & Gas
Date
11-30-93

SURVEYOR CERTIFICATION

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
May 20, 1993
Signature & Seal of
Professional Surveyor

[Signature]
Certificate No. **648**

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600