

Production Information.

COUNTY 1 FIELD Wildcat STATE NM
 OPR ATLANTIC RICHFIELD CO. API 30-025-2569
 NO. 1 LEASE Langlie Deep MAP
Sec 28; T22S, R36E COORDS
590' FNL, 2310' FWL of Sec 8-1-77
8 mi SW/Eunice SPD 11-10-77 CMP 5-28-78

CSG 20" at 22' w/300 sx 13 3/8" at 1425' w/1140 sx 9 5/8" at 6200' w/2720 sx 7" at 15,670' w/1100 sx	WELL CLASS: INIT <u>WD</u> FIN <u>WFD</u> ELEV <u>15,671'</u>			
	FORMATION	DATUM	FORMATION	DATUM
	TD <u>15,671'</u> (ELBG)		PBD <u>15,59</u>	

IP (Ellenburger) Perfs 15,329-531' CAOF 4737 MCFGPD. GOR
 10,000; gty (Gas) .671; (Cond) 61; SIWHP 4300#

CONTR ARD #2 OPRS ELEV 3516' GL PD 15,500' R

F.R. 10-31-77
 (Ellenburger)
 11-7-77 AMEND LEASE NAME ON TICKET ONLY: Formerly
 reported as Langue Deep
 11-11-77 Drlg 127'
 11-23-77 Drlg 4770'
 12-2-77 Drlg 6260'
 12-9-77 Drlg 8215'
 12-17-77 Drlg 9572'
 DST (Strawn) 9462-91', op 2 hrs 30 mins,
 GTS in 12 mins, Flwd 18 BO in 1 hr thru
 28/64" chk, rev out 59 BO + 9 BW (Sampler
 rec 1700 cc's oil + 3.604 CFG), 1 hr ISIP
 3503#, FP 1379-2867#, FSIP 3394#, HP 4429-
 4429#

8-1-27 NM

LEA
ATLANTIC RICHFIELD CO.

Wildcat
1 Langlie Deep
Sec 28, T22S, R36E

NM
Page #3

2-2-78

Continued

rev out & rec 10 B Cond 26 BHGCM, 1
hr ISIP 5077#, FP 830-1157#, 4 hr FSIP
4835#, HP 6267-6091#
Cored (Devonian) 12,525-577', rec 52',
dolo
DST (Devonian) 12,529-612', op 1 hr 15
mins, GTS 45 mins @ 35 MCFGPD thru 1/4" ch
inc. to 54 MCFGPD in 25 mins, rec 279' sli
GCDM + 1678' HGCDM, 15 min ISIP 5218#,
FP 330-495#, 2 hr FSIP 5156#, HP 12,000-
6183#

8-1-27 NM

2-10-78

Drlg 13,318'
DST (Devonian) 12,706-810', op 1 hr
15 mins, rec 1446' M + 935' Sli G&WCM
+ 3644' Sli GCW + 217' WCM, 1 hr ISIP
5275#, FP 1376-3013#, 1 hr FSIP 5275#,
HP 6311-6311#

2-16-78

TD 13,848'; Prep Drill
Cored (Fusselman) 13,790-848', rec 58',
dolo

2-24-78

Drlg 14,593'
Sampler Top: Simpson 14,475'

3-3-78

TD 14,900'; Rng. DST

3-9-78

Crg 15,275'

8-1-27 NM

LEA
ATLANTIC RICHFIELD CO.

Wildcat
1 Langlie Deep
Sec 28, T22S, R36E

NM
Page #4

3-9-78 Continued
Cored (McKee) 14,900-904', rec 4', bbl
jammed
DST (McKee) 14,764-900', Pkr failed
DST (McKee) 14,820-900', Pkr failed
3-16-78 Drlg 15,636'
Cored (Ellenburger) 15,275-313', rec 38',
dolo
3-27-78 TD 15,671'; MORT
4-3-78 TD 15,671'; Prep Perf
4-7-78 TD 15,671'; PBD 15,590'; Swbg
Perf (Ellenburger) @ 15,442', 15,447',

8-1-27 NM

4-7-78 Continued
15,451', 15,454', 15,462', 15,465',
15,469', 15,473', 15,476', 15,481',
15,485', 15,489', 15,493', 15,498',
15,503', 15,512', 15,518', 15,522',
15,527', 15,531' w/1 SPI
4-13-78 TD 15,671'; PBD 15,590'; Tatg
Acid (15,442-531') 15,000 gals
Est. CAOF 10,800 MCF GPD (15,442-531')
6-19-78 TD 15,671'; PBD 15,590'; WOSP
Perf (Ellenburger) @ 15,329', 15,336',
15,347', 15,352', 15,357', 15,364', 15,372',
15,376', 15,381', 15,385', 15,391', 15,396'
w/2 SPI

8-1-27 NM

LEA
ATLANTIC RICHFIELD CO.

Wildcat
1 Langlie Deep
Sec 28, T22S, R36E

NM
Page #5

6-19-78 Continued
Acid (15,329-396') 15,000 gals (15%)
Flwd 2429 MCFGPD + 209 BO + 2 BW, TP
400# in 24 hrs (15,329-531')
7-31-78 TD 15,671'; PBD 15,590'; Complete
(Ellenburger) FOUR POINT GAUGES:
Flwd 262 MCFGPD, 2.25" orifice, 240 mins,
TP 4065#
Flwd 516 MCFGPD, 2.25" orifice, 240 mins,
TP 3758#
Flwd 1216 MCFGPD, 2.25" orifice, 240 mins,
TP 3360#

8-1-27 NM

7-31-78 Continued
Flwd 2121 MCFGPD, 2.25" orifice, 240
mins, TP 2870#
Ellenburger Discovery: No Suggested
Field Name
LOG TOPS: Abo 7837', Upper Wolfcamp 8208',
Lower Wolfcamp 9048', Strawn 9380',
Atoka 10,243', Morrow 10,649', Barnett
11,125', Woodford 11,977', Devonian
12,279', Silurian 12,947', Fusselman
13,761', Montoya 14,088', Simpson 14,490',
McKee 14,726', Ellenburger 15,250'
LOGS RUN: CNL, FDC, GRL, SONL, DILL, DIPM,
CBND

8-1-27 NM

LEA
ATLANTIC RICHFIELD CO.

Wildcat
1 Langlie Deep
Sec 28, T22S, R36E

NM
Page #6

8-5-78

COMPLETION ISSUED

8-1-27 NM

IC 30-025-70290-77

ATLANTIC RICHFIELD COMPANY
 LANGLEY DEEP WELL NO. 1
 WILDCAT
 EDDY COUNTY NEW MEXICO
 GYROSCOPIC SURVEL

PAGE 1
 DATE OF SURVEY MARCH 31, 1976
 VERTICAL SECTION DIRECTION CLOSURE

SUB-6010

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	SPERRY-SUN RECORD OF SURVEY		DOG-LEG SEV	TOTAL RECTANGULAR COORDINATES		VERTICAL SECTION
				COURSE DIRECTION DEG MIN	ORIGIN AT SURFACE		NORTH/SOUTH	EAST/WEST	
0	0.	0.	0 35		S 15	0.58	0.	0.	0.
100	100.00	100.00	0 35		S 15	0.58	0.49 S	0.13 W	-0.33
200	199.99	199.99	0 35		S 14	0.	1.48 S	0.39 W	-0.97
300	299.99	299.99	0 35		S 27	0.13	2.42 S	0.74 W	-1.59
400	399.98	399.98	0 25		S 37	0.19	3.17 S	1.19 W	-2.41
500	499.98	499.98	0 35		S 33	0.17	3.89 S	1.69 W	-3.16
600	599.97	599.97	0 35		S 46	0.13	4.67 S	2.33 W	-4.07
700	699.97	699.97	0 40		S 46	0.08	5.42 S	3.11 W	-5.10
800	799.96	799.96	0 40		S 46	0.	6.23 S	3.95 W	-6.20
900	899.96	899.96	0 40		S 46	0.	7.04 S	4.79 W	-7.29
1000	999.95	999.95	0 30		S 63	0.24	7.64 S	5.60 W	-8.28
1100	1099.95	1099.95	0 25		S 57	0.10	8.04 S	6.29 W	-9.07
1200	1199.94	1199.94	0 25		S 65	0.06	8.39 S	6.92 W	-9.80
1300	1299.94	1299.94	0 20		S 66	0.03	8.66 S	7.52 W	-10.45
1400	1399.94	1399.94	0 15		N 61	0.27	8.68 S	7.98 W	-10.97
1500	1499.94	1499.94	0 15		N 14	0.20	8.36 S	8.22 W	-10.96
1600	1599.94	1599.94	0 15		N 9	0.02	7.93 S	8.31 W	-10.86
1700	1699.94	1699.94	0 15		N 6	0.07	7.50 S	8.32 W	-10.69
1800	1799.94	1799.94	0 20		N 9	0.08	6.99 S	8.25 W	-10.42
1900	1899.94	1899.94	0 20		N 14	0.03	6.42 S	8.13 W	-10.07
2000	1999.93	1999.93	0 25		N 12	0.08	5.79 S	7.99 W	-9.68
2100	2099.93	2099.93	0 25		N 6	0.04	5.07 S	7.87 W	-9.27
2200	2199.93	2199.93	0 30		N 31	0.21	4.33 S	7.61 W	-8.73
2300	2299.92	2299.92	0 45		N 46	0.30	3.51 S	6.92 W	-7.75
2400	2399.91	2399.91	1 5		N 57	0.38	2.54 S	5.65 W	-6.19
2500	2499.89	2499.89	1 5		N 57	0.	1.51 S	4.07 W	-4.32
2600	2599.87	2599.87	1 10		N 57	0.08	0.44 S	2.42 W	-2.38
2700	2699.85	2699.85	1 15		N 58	0.09	0.70 N	0.64 W	-0.29
2800	2799.83	2799.83	1 5		N 59	0.17	1.76 N	1.09 W	1.73
2900	2899.81	2899.81	1 0		N 61	0.09	2.67 N	2.67 W	3.54

ATLANTIC RICHFIELD COMPANY
 LANGLEY DEEP WELL NO. 1
 WILDCAT
 EDDY COUNTY NEW MEXICO
 CYTOSCOPIC SURVEL

PAGE 2
 DATE OF SURVEY MARCH 31, 1978
 VERTICAL SECTION DIRECTION CLOSURE

SUB-6010

SPEERY-SUM RECORD OF SURVEY												
MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION		COURSE DIRECTION		DUG-LEG SEV DEG/100	TOTAL COORDINATES		VERTICAL SECTION		
			DEG MIN	SEC	DEG MIN	SEC		NORTH/SOUTH	EAST/WEST			
3000	2999.80	2999.80	0 50		N 65	0 E	0.16	5.40 N	4.09 E	5.14		
3100	3099.79	3099.79	0 40		N 64	0 E	0.17	3.96 N	5.27 E	6.45		
3200	3199.78	3199.78	0 40		N 68	0 E	0.05	4.44 N	6.33 E	7.61		
3300	3299.78	3299.78	0 35		N 65	0 E	0.09	4.87 N	7.33 E	8.70		
3400	3399.77	3399.77	0 35		N 65	0 E	0.	5.30 N	8.26 E	9.72		
3500	3499.77	3499.77	0 35		N 63	0 E	0.02	5.75 N	9.17 E	10.73		
3600	3599.76	3599.76	0 25		N 67	0 E	0.17	6.12 N	9.96 E	11.61		
3700	3699.76	3699.76	0 20		N 90	0 E	0.17	6.26 N	10.59 E	12.23		
3800	3799.76	3799.76	0 25		S 89	0 E	0.08	6.25 N	11.24 E	12.83		
3900	3899.76	3899.76	0 20		N 83	0 E	0.10	6.28 N	11.89 E	13.43		
4000	3999.75	3999.75	0 20		N 71	0 E	0.07	6.41 N	12.46 E	14.00		
4100	4099.75	4099.75	0 20		N 82	0 E	0.06	6.55 N	13.02 E	14.57		
4200	4199.75	4199.75	0 20		N 77	0 E	0.03	6.66 N	13.59 E	15.13		
4300	4299.75	4299.75	0 20		N 83	0 E	0.03	6.76 N	14.16 E	15.69		
4400	4399.75	4399.75	0 20		N 65	0 E	0.10	6.91 N	14.72 E	16.26		
4500	4499.75	4499.75	0 20		N 60	0 E	0.03	7.18 N	15.23 E	16.84		
4600	4599.74	4599.74	0 20		N 54	0 E	0.03	7.50 N	15.72 E	17.41		
4700	4699.74	4699.74	0 15		N 50	0 E	0.09	7.81 N	16.12 E	17.91		
4800	4799.74	4799.74	0 10		N 65	0 E	0.10	8.01 N	16.42 E	18.27		
4900	4899.74	4899.74	0 10		N 59	0 E	0.01	8.15 N	16.68 E	18.56		
5000	4999.74	4999.74	0 10		N 79	0 E	0.06	8.25 N	16.94 E	18.84		
5100	5099.74	5099.74	0 10		N 88	0 E	0.02	8.28 N	17.23 E	19.12		
5200	5199.74	5199.74	0 10		N 83	0 E	0.	8.30 N	17.52 E	19.39		
5300	5299.74	5299.74	0 15		S 83	0 E	0.09	8.29 N	17.88 E	19.71		
5400	5399.74	5399.74	0 15		N 74	0 E	0.10	8.32 N	18.31 E	20.11		
5500	5499.74	5499.74	0 15		N 78	0 E	0.01	8.43 N	18.73 E	20.54		
5600	5599.74	5599.74	0 10		N 78	0 E	0.08	8.50 N	19.09 E	20.90		
5700	5699.74	5699.74	0 15		N 63	0 E	0.10	8.63 N	19.43 E	21.26		
5800	5799.74	5799.74	0 15		N 53	0 E	0.04	8.86 N	19.79 E	21.69		
5900	5899.73	5899.73	0 15		N 34	0 E	0.02	9.17 N	20.09 E	22.09		

ATLANTIC RICHFIELD COMPANY
LANOLEY DEEP WELL NO. 1
WILDCAT
EDDY COUNTY NEW MEXICO
CYROSCOPIC SURVEL

PAGE 3
DATE OF SURVEY MARCH 31, 1978
VERTICAL SECTION DIRECTION CLOSURE

SU3-6010

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	RECORD OF SURVEY		DUG-LEO SEV DEG/100	TOTAL RECTANGULAR COORDINATES		VERTICAL SECTION
			COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG MIN		NORTH/SOUTH	EAST/WEST	
6000	5999.73	5999.73	0 20	N 47 0 E	0.11	9.55 N	20.42 E	22.56
6100	6099.73	6099.73	0 20	N 48 0 E	0.	9.95 N	20.85 E	23.10
6200	6199.73	6199.73	0 35	N 39 0 E	0.26	10.54 N	21.39 E	23.84
6300	6299.72	6299.72	0 40	N 49 0 E	0.14	11.31 N	22.15 E	24.85
6400	6399.71	6399.71	0 45	N 43 0 E	0.11	12.17 N	23.04 E	26.02
6500	6499.71	6499.71	0 50	N 40 0 E	0.09	13.21 N	23.95 E	27.28
6600	6599.70	6599.70	0 45	N 42 0 E	0.09	14.25 N	24.85 E	28.54
6700	6699.69	6699.69	0 45	N 38 0 E	0.05	15.26 N	25.70 E	29.72
6800	6799.68	6799.68	0 45	N 41 0 E	0.04	16.27 N	26.53 E	30.90
6900	6899.67	6899.67	0 45	N 40 0 E	0.01	17.26 N	27.35 E	32.09
7000	6999.66	6999.66	0 40	N 37 0 E	0.09	18.23 N	28.15 E	33.19
7100	7099.65	7099.65	0 45	N 29 0 E	0.13	19.26 N	28.82 E	34.23
7200	7199.65	7199.65	0 40	N 28 0 E	0.09	20.36 N	29.39 E	35.21
7300	7299.64	7299.64	0 40	N 22 0 E	0.05	21.42 N	29.86 E	36.08
7400	7399.63	7399.63	0 35	N 19 0 E	0.09	22.44 N	30.24 E	36.86
7500	7499.63	7499.63	0 35	N 19 0 E	0.	23.40 N	30.58 E	37.56
7600	7599.62	7599.62	0 30	N 19 0 E	0.08	24.30 N	30.88 E	38.21
7700	7699.62	7699.62	0 35	N 26 0 E	0.11	25.17 N	31.25 E	38.91
7800	7799.62	7799.62	0 30	N 20 0 E	0.10	26.04 N	31.62 E	39.61
7900	7899.61	7899.61	0 30	N 27 0 E	0.06	26.84 N	31.97 E	40.26
8000	7999.61	7999.61	0 30	N 33 0 E	0.05	27.59 N	32.40 E	40.97
8100	8099.60	8099.60	0 35	N 32 0 E	0.08	28.39 N	32.91 E	41.77
8200	8199.60	8199.60	0 30	N 40 0 E	0.11	29.15 N	33.46 E	42.59
8300	8299.59	8299.59	0 35	N 44 0 E	0.09	29.85 N	34.10 E	43.45
8400	8399.59	8399.59	0 35	N 43 0 E	0.	30.59 N	34.80 E	44.40
8500	8499.58	8499.58	0 35	N 43 0 E	0.	31.34 N	35.49 E	45.34
8600	8599.58	8599.58	0 35	N 49 0 E	0.06	32.04 N	36.22 E	46.30
8700	8699.57	8699.57	0 30	N 50 0 E	0.08	32.66 N	36.94 E	47.21
8800	8799.57	8799.57	0 25	N 54 0 E	0.09	33.15 N	37.57 E	47.99
8900	8899.57	8899.57	0 20	N 53 0 E	0.16	33.61 N	38.02 E	48.59

ATLANTIC RICHFIELD COMPANY
 LANGLEY DEEP WELL NO. 1
 WILDCAT
 EDDY COUNTY NEW MEXICO
 CYROSCOPIC SURVEL

PAGE 4
 DATE OF SURVEY MARCH 31, 1978
 VERTICAL SECTION DIRECTION CLOSURE

SU3-6010

SPERRY-SUN RECORD OF SURVEY									
MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG MIN	DOG-LEG SEV DEG/100	TOTAL RECTANGULAR NORTH/SOUTH		COORDINATES EAST/WEST	VERTICAL SECTION
9000	9099.57	9099.57	0 20	N 35	0.	34.09	N	38.35	49.09
9100	9099.57	9099.57	0 15	N 54	0.13	34.46	N	38.69	49.55
9200	9199.56	9199.56	0 15	N 48	0.02	34.73	N	39.03	49.98
9300	9299.56	9299.56	0 10	N 52	0.08	34.97	N	39.31	50.33
9400	9399.56	9399.56	0 10	N 74	0.06	35.10	N	39.56	50.61
9500	9499.56	9499.56	0 10	N 51	0.07	35.23	N	39.81	50.90
9600	9599.56	9599.56	0 5	N 82	0.10	35.33	N	40.00	51.11
9700	9699.56	9699.56	0 20	S 39	0.30	35.11	N	40.25	51.25
9800	9799.56	9799.56	0 15	S 43	0.09	34.73	N	40.59	51.39
9900	9899.56	9899.56	0 35	N 81	0.49	34.65	N	41.24	51.95
10000	9999.55	9999.55	0 50	N 83	0.25	34.82	N	42.46	53.13
10100	10099.54	10099.54	0 55	N 81	0.09	35.03	N	43.97	54.59
10200	10199.53	10199.53	0 55	N 85	0.06	35.23	N	45.56	56.11
10300	10299.51	10299.51	1 0	S 89	0.13	35.28	N	47.23	57.65
10400	10399.50	10399.50	1 0	S 77	0.21	35.07	N	48.95	59.13
10500	10499.47	10499.47	1 25	S 67	0.47	34.39	N	50.94	60.65
10600	10599.44	10599.44	1 40	S 69	0.26	33.39	N	53.44	62.50
10700	10699.39	10699.39	2 0	S 83	0.56	32.65	N	56.53	65.00
10800	10799.31	10799.31	2 40	N 79	0.98	32.88	N	60.54	68.74
10900	10899.17	10899.17	3 15	N 73	0.66	34.16	N	65.54	73.81
11000	10999.01	10999.01	3 15	N 67	0.34	36.09	N	70.86	79.46
11100	11098.85	11098.85	3 20	N 62	0.30	38.56	N	76.03	85.19
11200	11198.62	11198.62	4 20	N 52	1.20	42.26	N	81.52	91.77
11300	11298.34	11298.34	4 20	N 49	0.23	47.06	N	87.40	99.07
11400	11398.07	11398.07	4 0	N 50	0.34	51.78	N	92.93	106.06
11500	11497.84	11497.84	3 50	N 49	0.18	56.22	N	98.12	112.64
11600	11597.62	11597.62	3 40	N 52	0.26	60.38	N	103.16	118.96
11700	11697.42	11697.42	3 35	N 53	0.10	64.23	N	108.18	125.12
11800	11797.24	11797.24	3 25	N 51	0.21	67.98	N	112.99	131.06
11900	11897.06	11897.06	3 20	N 48	0.20	71.80	N	117.47	136.73

ATLANTIC RICHFIELD COMPANY
 LANGLEY DEEP WELL NO. 1
 WILDCAT
 EDDY COUNTY NEW MEXICO
 GYROSCOPIC SURMEL

DATE OF SURVEY MARCH 31, 1978
 VERTICAL SECTION DIRECTION CLOSURE
 AGE 5

SU3-6010

SPERRY-SUN RECORD OF SURVEY										
MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE		COURSE DIRECTION DEG MIN	DOG-LEG SEV DEG/100	RECTANGULAR NORTH/SOUTH	TOTAL COORDINATES		VERTICAL SECTION
			INCLINATION DEG MIN	DIRECTION DEG MIN				EAST/WEST		
12000	11996.87	11996.87	3 45	N 49	O E	0.42	75.89 N	122.10 E	142.64	
12100	12096.62	12096.62	4 25	N 45	O E	0.72	80.76 N	127.29 E	149.39	
12200	12196.31	12196.31	4 40	N 45	O E	0.25	86.36 N	132.89 E	156.81	
12300	12296.00	12296.00	4 15	N 48	O E	0.48	91.72 N	138.52 E	164.16	
12400	12395.73	12395.73	4 10	N 48	O E	0.08	96.63 N	143.97 E	171.17	
12500	12495.47	12495.47	4 10	N 47	O E	0.07	101.54 N	149.33 E	178.09	
12600	12595.22	12595.22	3 55	N 48	O E	0.26	106.30 N	154.52 E	184.80	
12700	12695.00	12695.00	3 40	N 49	O E	0.26	110.68 N	159.47 E	191.13	
12800	12794.81	12794.81	3 30	N 52	O E	0.25	114.66 N	164.29 E	197.17	
12900	12894.62	12894.62	3 30	N 52	O E	0.	118.42 N	169.10 E	203.11	
13000	12994.44	12994.44	3 25	N 48	O E	0.26	122.29 N	173.72 E	208.92	
13100	13094.27	13094.27	3 15	N 44	O E	0.29	126.32 N	177.91 E	214.41	
13200	13194.11	13194.11	3 15	N 43	O E	0.06	130.44 N	181.81 E	219.67	
13300	13293.95	13293.95	3 5	N 42	O E	0.18	134.51 N	185.54 E	224.76	
13400	13393.82	13393.82	2 55	N 41	O E	0.17	138.43 N	189.01 E	229.55	
13500	13493.71	13493.71	2 25	N 41	O E	0.50	141.94 N	192.06 E	233.79	
13600	13593.62	13593.62	2 20	N 43	O E	0.12	145.02 N	194.83 E	237.60	
13700	13693.55	13693.55	2 5	N 47	O E	0.29	147.75 N	197.55 E	241.21	
13800	13793.49	13793.49	1 55	N 54	O E	0.30	149.97 N	200.23 E	244.57	
13900	13893.40	13893.40	2 50	N 68	O E	1.08	151.88 N	203.88 E	248.68	
14000	13993.22	13993.22	4 0	N 77	O E	1.28	153.59 N	209.57 E	254.57	
14100	14092.98	14092.98	4 0	N 76	O E	0.07	155.22 N	216.35 E	261.41	
14200	14192.73	14192.73	4 5	N 77	O E	0.11	156.86 N	223.20 E	268.32	
14300	14292.47	14292.47	4 10	N 82	O E	0.37	158.17 N	230.27 E	275.29	
14400	14392.22	14392.22	3 55	N 78	O E	0.38	159.38 N	237.21 E	282.10	
14500	14491.98	14491.98	4 5	N 81	O E	0.27	160.65 N	244.07 E	288.86	
14600	14591.72	14591.72	4 10	N 84	O E	0.23	161.59 N	251.20 E	295.73	
14700	14691.43	14691.43	4 30	N 80	O E	0.45	162.65 N	258.67 E	302.96	
14800	14791.07	14791.07	5 15	N 81	O E	0.75	164.04 N	267.05 E	311.16	
14900	14890.57	14890.57	6 15	N 81	O E	1.00	165.61 N	276.95 E	320.81	

ATLANTIC RICHFIELD COMPANY
 LANGLEY DEEP WELL NO. 1
 WILDCAT
 EDDY COUNTY NEW MEXICO
 GYROSCOPIC SURMEL

DATE OF SURVEY MARCH 31, 1978
 VERTICAL SECTION DIRECTION CLOSURE

SUB-6010

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	RECORD OF SURVEY		DOG-LEG SEV DEG/100	RECTANGULAR NORTH/SOUTH	TOTAL COORDINATES EAST/WEST	VERTICAL SECTION
			COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG MIN				
15000	14989.86	14989.86	7 20	N 83 0 E	1.11	167.24 N	288.66 E	332.13
15100	15088.92	15088.92	8 25	N 86 0 E	1.16	168.53 N	302.30 E	345.06
15200	15187.81	15187.81	8 40	N 86 0 E	0.25	169.57 N	317.11 E	358.95
15300	15286.73	15286.73	8 10	N 87 0 E	0.52	170.46 N	331.72 E	372.60
15400	15385.72	15385.72	8 10	N 86 0 E	0.14	171.33 N	345.90 E	385.84
15589	15572.27	15572.27	10 25	S 88 0 E	1.69	172.32 N	376.05 E	413.66

** THE CALCULATIONS ARE BASED ON THE MINIMUM RADIUS OF CURVATURE METHOD**

HORIZONTAL DISPLACEMENT = 413.66 FEET AT NORTH 65 DEG. 23 MIN. EAST (TRUE)