

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1980 FSL & 660 FWL(UNIT LETTER L)
1-18S-27E**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

LC-062412 NM -0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.

EMPIRE ABO UNIT "K" 17

9. API Well No.

30-015-00703

10. Field and Pool, or exploratory Area

EMPIRE ABO

11. County or Parish, State

EDDY NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **ADD HORIZONTAL EXT**
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

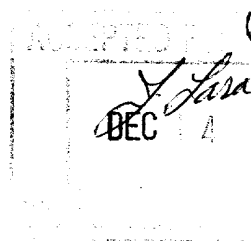
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)*

05-22-95. RUPU. POH W/PROD CA. RIH W/4 3/4 BIT TO 6099 PBD. SET CIBP AT 5830. RIH W/WHIPSTOCK. RAN GYRO SURVEY F/SURF-5798. SET WHIPSTOCK PKR ASSEMBLY AT 5812. CUT 6' WINDOW IN 5 1/2 CSG(5797-5803). DIRECTIONAL DRILLED TO 7705 MD. RIH W/PROD CA:2 3/8 TBG & PKR TO 5906. PKR SET AT 5772. RDPU 06-13-95

DEC 18 1995

OIL CON. DIV.
DIST. 2



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

Signed **Ken W. Gosnell**

Title **AGENT**

Date **11-16-95**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

===== EAGLE DIRECTIONAL SERVICES, INC =====

Date: 6/8/1995 Time: 7:28: 6

PAGE: 1

Filename: "ARCO.SRV" Description: "ARCO PERMIAN EMPIRE ABO UNIT K17 RE-ENTRY
HORIZONTAL WELL NW/4 SW/4 SEC 1 T18S R27E EDDY COUNTY, NEW MEXICO
"

Target Coordinates: 23.6 N 1064.3 E Target TVD: 6048.600
Using Minimum Curvature Method.

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	RECTANGULAR --- COORDINATES (feet)	DOGLEG -SEVERITY DG/100FT
0	5700.0	5.15	346.670	0.0	5689.8	0.0	210.9 N 168.9 W	0.00
1	5798.0	4.73	350.130	98.0	5787.5	-165.7	219.2 N 170.6 W	0.53
2	5828.0	8.60	48.200	30.0	5817.3	-164.2	221.9 N 169.1 W	24.31
3	5857.0	17.10	64.500	29.0	5845.6	-158.6	225.2 N 163.7 W	31.59
4	5887.0	23.60	76.700	30.0	5873.7	-148.7	228.5 N 153.8 W	25.77
5	5918.0	27.90	93.300	31.0	5901.6	-135.4	229.5 N 140.5 W	26.96
6	5948.0	33.70	97.900	30.0	5927.4	-120.2	228.0 N 125.3 W	20.85
7	5979.0	42.70	97.000	31.0	5951.7	-101.2	225.5 N 106.3 W	29.09
8	6011.0	51.40	95.200	32.0	5973.5	-78.0	223.0 N 83.0 W	27.50
9	6043.0	59.60	96.100	32.0	5991.6	-51.9	220.4 N 56.8 W	25.73
10	6074.0	58.70	97.300	31.0	6007.5	-25.5	217.3 N 30.3 W	4.41
11	6106.0	64.20	100.300	32.0	6022.8	2.1	213.0 N 2.6 W	19.06
12	6136.0	69.40	105.500	30.0	6034.6	28.8	206.8 N 24.3 E	23.54
13	6167.0	76.70	106.200	31.0	6043.7	57.2	198.7 N 52.8 E	23.65
14	6198.0	84.00	104.500	31.0	6048.9	86.4	190.7 N 82.2 E	24.16
15	6230.0	87.00	103.700	32.0	6051.4	117.2	182.9 N 113.2 E	9.70
16	6262.0	87.70	103.200	32.0	6052.8	148.1	175.5 N 144.2 E	2.69
17	6293.0	87.80	103.700	31.0	6054.1	178.1	168.2 N 174.4 E	1.64
18	6323.0	88.10	104.700	30.0	6055.1	207.0	160.9 N 203.4 E	3.48
19	6355.0	87.80	105.200	32.0	6056.3	237.7	152.6 N 234.3 E	1.82
20	6387.0	86.10	103.100	32.0	6058.0	268.5	144.8 N 265.3 E	8.44
21	6418.0	86.00	103.200	31.0	6060.1	298.4	137.8 N 295.4 E	0.46
22	6450.0	85.70	103.200	32.0	6062.4	329.3	130.5 N 326.5 E	0.94
23	6481.0	85.70	103.300	31.0	6064.8	359.2	123.4 N 356.6 E	0.32
24	6512.0	87.20	101.700	31.0	6066.7	389.3	116.7 N 386.8 E	7.07
25	6544.0	87.00	101.000	32.0	6068.3	420.5	110.4 N 418.1 E	2.27
26	6574.0	86.50	100.800	30.0	6070.0	449.8	104.8 N 447.5 E	1.79
27	6604.0	86.50	100.900	30.0	6071.8	479.0	99.1 N 477.0 E	0.33
28	6636.0	88.00	99.300	32.0	6073.4	510.4	93.5 N 508.4 E	6.85
29	6666.0	87.70	99.000	30.0	6074.5	539.9	88.8 N 538.0 E	1.41
30	6697.0	87.40	99.200	31.0	6075.8	570.3	83.9 N 568.6 E	1.16
31	6758.0	88.10	99.400	61.0	6078.2	630.2	74.0 N 628.7 E	1.19
32	6819.0	88.10	100.200	61.0	6080.2	690.1	63.6 N 688.8 E	1.31
33	6848.0	87.90	100.300	29.0	6081.2	718.5	58.5 N 717.3 E	0.77
34	6909.0	88.80	98.400	61.0	6083.0	778.4	48.6 N 777.5 E	3.45
35	6939.0	88.50	98.500	30.0	6083.7	808.0	44.2 N 807.2 E	1.05

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	--- RECTANGULAR COORDINATES (feet)	DOGLEG -SEVERITY DG/100FT
36	7001.0	89.60	98.300	62.0	6084.7	869.1	35.1 N 868.5 E	1.80
37	7062.0	86.60	95.700	61.0	6086.8	929.4	27.7 N 929.0 E	6.51
38	7152.0	89.80	96.500	90.0	6089.6	1018.6	18.1 N 1018.4 E	3.66
39	7214.0	91.30	96.300	62.0	6089.0	1080.0	11.2 N 1080.0 E	2.44
40	7276.0	92.40	96.100	62.0	6087.0	1141.5	4.5 N 1141.6 E	1.80
41	7336.0	92.60	96.500	60.0	6084.4	1200.9	2.1 S 1201.2 E	0.74
42	7362.0	92.90	96.400	26.0	6083.1	1226.6	5.0 S 1227.0 E	1.22
43	7427.0	92.20	97.100	65.0	6080.2	1290.9	12.6 S 1291.5 E	1.52
44	7458.0	90.00	97.600	31.0	6079.6	1321.6	16.6 S 1322.3 E	7.28
45	7520.0	88.30	97.700	62.0	6080.6	1382.8	24.8 S 1333.7 E	2.75
46	7583.0	87.10	98.100	63.0	6083.1	1444.9	33.5 S 1446.0 E	2.01
47	7641.0	86.40	98.500	58.0	6086.4	1502.0	41.8 S 1503.3 E	1.39
48	7672.0	85.80	98.900	31.0	6088.5	1532.5	46.5 S 1533.9 E	2.32
--- Survey #49 is Projected to TD!								
49	7705.0	85.20	98.900	33.0	6091.1	1564.9	51.6 S 1566.4 E	1.82
--- Final Closure Direction:				91.887				
--- Final Closure Distance:				1567.266 feet				

SCIENTIFIC DRILLING INTERNATIONAL
MIDLAND, TEXAS

Finder Survey
for

ARCO OIL & GAS COMPANY
MIDLAND, TEXAS

Job Number : 32F0595215
Well Number : EMPIRE ABO "K" NO. 17
Site Location : EDDY COUNTY, NEW MEXICO
Latitude : 32.750
Survey Date(s) : 24-MAY-95
S.D.C. personnel : GARY DESPAIN
Calculation Method : Minimum Curvature
Survey Depth Zero : RKB
Proposal Direction : 99.000
Depth Unit : Feet
Comments :

Inrun Survey
ARCO OIL & GAS COMPANY

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Well number : EMPIRE ABO "K" NO.

Date : 24-MAY-95

Measured Depth	Vertical Depth	Vert. Section	Inc Deg	Azimuth Deg	Coordinates		D-log /100ft
					Latitude	Departure	
0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00
100.0	100.00	-0.1	0.26	336.94	0.21	-0.09	0.26
200.0	200.00	-0.3	0.24	338.11	0.61	-0.26	0.02
300.0	300.00	-0.6	0.31	329.92	1.04	-0.47	0.08
400.0	400.00	-1.1	0.41	315.24	1.53	-0.86	0.14
500.0	499.99	-1.7	0.48	316.06	2.08	-1.40	0.07
600.0	599.99	-2.5	0.60	308.21	2.71	-2.10	0.14
700.0	699.98	-3.6	0.77	290.57	3.27	-3.14	0.27
800.0	799.97	-5.1	1.00	281.40	3.68	-4.63	0.27
900.0	899.94	-7.3	1.47	287.75	4.24	-6.70	0.49
1000.0	999.90	-10.0	1.75	293.11	5.23	-9.33	0.32
1100.0	1099.86	-12.9	1.76	300.33	6.61	-12.06	0.22
1200.0	1199.81	-15.8	1.82	301.42	8.21	-14.74	0.07
1300.0	1299.76	-18.7	1.84	305.46	9.97	-17.40	0.13
1400.0	1399.71	-21.6	1.85	307.40	11.88	-19.99	0.06
1500.0	1499.66	-24.4	1.86	309.17	13.89	-22.53	0.06
1600.0	1599.60	-27.2	1.84	309.49	15.93	-25.03	0.02
1700.0	1699.55	-30.0	1.85	306.69	17.92	-27.56	0.09
1800.0	1799.50	-32.9	1.90	305.11	19.84	-30.21	0.07
1900.0	1899.44	-35.9	1.84	298.32	21.55	-32.98	0.23
2000.0	1999.39	-39.0	1.80	295.41	22.99	-35.82	0.10
2100.0	2099.34	-42.0	1.76	292.14	24.24	-38.66	0.11
2200.0	2199.30	-44.9	1.63	289.34	25.29	-41.42	0.15
2300.0	2299.26	-47.7	1.61	285.57	26.14	-44.12	0.11
2400.0	2399.22	-50.5	1.65	289.24	26.99	-46.83	0.11
2500.0	2499.18	-53.4	1.77	292.86	28.06	-49.61	0.16
2600.0	2599.13	-56.4	1.81	295.13	29.33	-52.46	0.08
2700.0	2699.07	-59.5	1.82	297.43	30.78	-55.38	0.13
2800.0	2799.02	-62.7	1.98	298.76	32.38	-58.38	0.07
2900.0	2898.95	-66.0	2.09	300.78	34.14	-61.46	0.13
3000.0	2998.88	-69.5	2.18	304.51	36.15	-64.60	0.17
3100.0	3098.81	-72.9	2.29	307.13	38.44	-67.76	0.15
3200.0	3198.72	-76.5	2.41	308.70	40.96	-70.99	0.14
3300.0	3298.63	-80.3	2.56	310.17	43.71	-74.34	0.16
3400.0	3398.52	-84.2	2.67	310.66	46.67	-77.81	0.11
3500.0	3498.41	-88.3	2.92	310.46	49.84	-81.52	0.25
3600.0	3598.27	-92.8	3.09	311.16	53.27	-85.48	0.17
3700.0	3698.12	-97.4	3.19	310.20	56.84	-89.64	0.11
3800.0	3797.95	-102.2	3.37	313.04	60.64	-93.91	0.24

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Inrun Survey
ARCO OIL & GAS COMPANY

Well number : EMPIRE ABO "K" NO.

Date : 24-MAY-95

Measured Depth	Vertical Depth	Vert. Section	Inc Deg	Azimuth Deg	Coordinates		D-leg /100ft
					Latitude	Departure	
					<i>North</i>	<i>West</i>	
3800.0	3897.77	-107.2	3.50	313.09	64.73	-98.29	0.13
4000.0	3997.58	-112.4	3.68	312.42	68.98	-102.89	0.18
4100.0	4097.36	-117.9	3.94	312.80	73.48	-107.78	0.26
4200.0	4197.11	-123.8	4.17	313.98	78.34	-112.91	0.24
4300.0	4296.82	-129.9	4.48	316.34	83.69	-118.23	0.36
4400.0	4396.50	-136.1	4.72	319.48	89.64	-123.60	0.35
4500.0	4496.15	-142.2	4.80	324.09	96.16	-128.72	0.39
4600.0	4595.77	-148.1	5.19	327.23	103.35	-133.62	0.48
4700.0	4695.33	-154.1	5.63	332.27	111.50	-138.35	0.65
4800.0	4794.80	-159.9	6.14	336.90	120.76	-142.74	0.70
4900.0	4894.21	-165.7	6.29	336.37	130.69	-147.03	0.16
5000.0	4993.62	-171.3	6.22	339.19	140.78	-151.15	0.32
5100.0	5093.05	-176.4	6.04	341.67	150.84	-154.73	0.32
5200.0	5192.48	-181.1	6.11	343.75	160.94	-157.87	0.23
5300.0	5291.91	-185.6	6.21	345.12	171.28	-160.75	0.18
5400.0	5391.34	-189.5	5.96	348.94	181.60	-163.14	0.48
5500.0	5490.80	-192.9	5.88	351.26	191.84	-164.92	0.24
5600.0	5590.29	-196.3	5.64	347.36	201.78	-166.79	0.52
5700.0	5689.84	-199.8	5.15	346.67	210.95	-168.90	0.49
5798.0	5787.48	-202.8	4.73	350.13	219.21	-170.61	0.53

At Bottom Hole Location: Measured Depth
= 5798.0

Horiz. Displ.
= 277.775

Closure Dir.
= 322.107

ARCO PERMIAN
 EMPIRE ABO UNIT
 WELL #K17 RE ENTRY
 NW/4 SW/4 SECTION 1 TOWNSHIP 18 SOUTH RANGE 27 EAST
 EDDY COUNTY, NEW MEXICO

SCALE 1"=150' PROPOSAL DRAWN @ 99° AZIMUTH FROM KICK OFF POINT

ARCO REP: MR. DOYLE CATES
 EAGLE REPS: MIKE PELLESIER
 ROB PORTER
 VOGEL REPS: KENNY GEORGE
 BOBBY KLEPPER

SIERRA ENGINEERING: MR. PAT DRENNON
 MR. C. D. KEMP

