

DATE IN 7/12/00	SUSPENSE 8/1/00	ENGINEER MS	LOGGED BY RV	TYPE NSL
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2040 South Pacheco, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☒ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

JUL 12 2000

Oil Conservation Division

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Bruce A. Stubbs

Print or Type Name

Signature

Consulting Engineer

Title

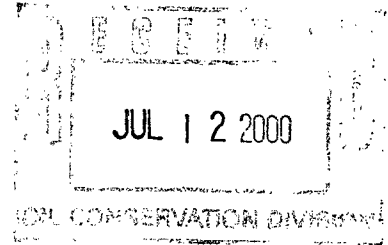
7/11/00

Date

Pecos Petroleum Engineering, Inc.
P.O. Box 1794
200 West First St., Suite 536
Roswell, New Mexico 88202-1794
505-624-2800

July 11, 2000

Mr. Michael E. Stogner
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Re: Unorthodox Location
Ricks Exploration, Inc.
Dinah "23" Federal Com. #1 (API No. 30-015-28946)
Surface Location 1077' FSL & 660' FWL
Producing Zone Location 1045' FSL & 623' FWL
Section 23-T17S-R28E
Eddy County, New Mexico

Dear Mr. Stogner:

Enclosed are three (3) copies of Ricks Exploration, Inc. application for an unorthodox location for the recompletion of the Dinah "23" Federal Com. #1 well and five (5) copies of the C-101 and C-102 forms.

Thank you for your prompt attention to this matter. Should you need additional information, please call Bruce Stubbs at 505-624-2800.

Sincerely,

Bruce A. Stubbs, P.E.
Consulting Engineer

Pecos Petroleum Engineering, Inc.
P.O. Box 1794
200 West First St., Suite 536
Roswell, New Mexico 88202-1794
505-624-2800

July 11, 2000

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Re: Unorthodox Location
Ricks Exploration, Inc.
Dinah "23" Federal Com. #1 (API No. 30-015-28946)
Surface Location 1077' FSL & 660' FWL
Producing Zone Location 1045' FSL & 623' FWL
Section 23-T17S-R28E
Eddy County, New Mexico

Dear Mr. Stogner:

Ricks Exploration, Inc. ("Applicant") hereby makes an application for an unorthodox location for the recompletion of the Dinah "23" Federal Com. #1 well, and in support thereof states:

1. The well was originally drilled to a total depth of 10,560 ft. and completed in the Atoka from 9810-9817'. The Atoka zone has cumulative production of 78,478 MCFG and 960 BO through 12/99 and is currently producing 7 to 10 MCFGD. The well is now at the economic limit and the Applicant proposes to recomplete the well in the potential oil zone in the Wolfcamp from 7862-7872'.
2. The well was drilled in an unorthodox location to test the Morrow formation within a standard 320-acre gas spacing and proration unit comprising the W/2 of Section 23, T17S, R28E, NMPM. The unorthodox location was approved by Administrative order NSL-3660, dated April 19, 1996 and was amended on January 6, 1997 with Administrative Order NSL-3660 (DD).
3. The Artesia district office of the Division's recognized depth of the top of the Wolfcamp is 7058' and the top of the Penn is 8210' in the Dinah "23" Federal Com. #1.
4. A directional deviation survey was run on the well to determine direction and displacement from the surface location. The surface location is at 1077' FSL & 660' FWL of section 23, the location of the Wolfcamp Zone, from 7862'-7872', is at 1045' FSL & 623' FWL of section 23. Pursuant to Rule 104.B.(1) the well can be no closer than 330' from the outer

boundary of the quarter-quarter section on which the well is located. Therefore, the wellbore at the Wolfcamp interval is at an unorthodox location, located 275' FNL of the SW/SW quarter-quarter section.

5. Ricks Exploration, Inc. is the operator of the Dinah 23 Federal Com. #1 and the deep rights under the W/2 of section 23, T17S-R28E.
6. Pursuant to rule 1207.A(2)(b), by being closer than 330' to the north boundary of the quarter-quarter section, the affected spacing unit towards which the unorthodox location encroaches is the NW/SW of section 23. Pursuant to rule 1207.A(2)(a) the "affected Persons" is the operator, Ricks Exploration, Inc.
7. The Dinah Federal Com. #1 is located within one-half mile of the Anderson-Wolfcamp Pool created by Order No. R-10951, February 1, 1998, establishing the pool which includes the E/2 Sec. 23; Sec. 24, T17S-R28E. If successful this well would be an extension to this pool.
8. Approval of this exception will result in the production of hydrocarbons which otherwise will not be produced, will not adversely affect correlative rights and be in the best interest of conservation.

Submitted in conjunction with this request, are the following documents:

1. Exhibit "A" Land Plat indicating offset leases and wells
2. Exhibit "B" Directional Survey
3. Exhibit "C" Porosity Log indicating the zone of interest
4. Form C-101 Application for Permit to Drill, Re-enter, Deepen, Plugback, or Add a Zone
5. Form C-102 Well Location and Acreage Dedication Plat

Wherefore, Ricks Exploration, Inc. requests that the Application be reviewed and that, after proper review as required by law and the rules of the Division, the Division approve the unorthodox location as hereinabove described.

Thank you for your prompt attention to this matter. Should you need additional information, please call Bruce Stubbs at 505-624-2800 or Cliff Merritt at 405-516-1135.

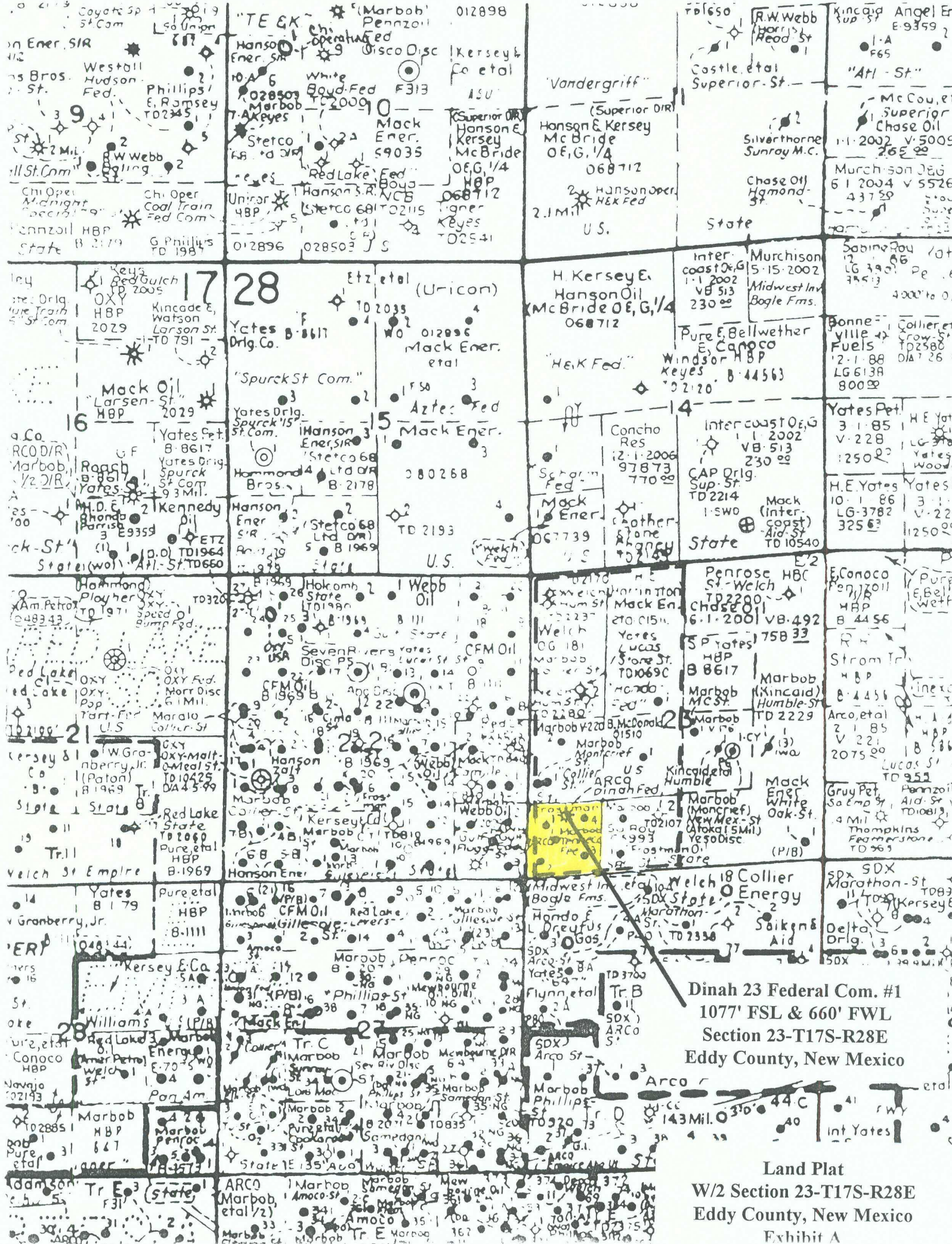
Sincerely,

A handwritten signature in black ink, appearing to read 'B. Stubbs', with a stylized flourish extending from the end.

Bruce A. Stubbs, P.E.
Consulting Engineer

xc: Mr. Cliff Merritt
Ricks Exploration, Inc.
3000 Oklahoma Tower
210 Park Avenue
Oklahoma City, Oklahoma 73102

Mr. Tim Gum
Oil Conservation Division
811 S. 1st Street
Artesia, New Mexico 88211



Dinah 23 Federal Com. #1
1077' FSL & 660' FWL
Section 23-T17S-R28E
Eddy County, New Mexico

Land Plat
W/2 Section 23-T17S-R28E
Eddy County, New Mexico
Exhibit A

ARCO PERMIAN
DINAH 23 FED COM NO. 1

slot #1
UNKNOWN M-23-17-28
EDDY CO., NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : SIDETRACK
Our ref : svy689
License :

Date printed : 3-Sep-96
Date created : 28-Jun-96
Last revised : 1-Jul-96

Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

Directional Survey
Dinah 23 Fed. Com. #1

Exhibit B

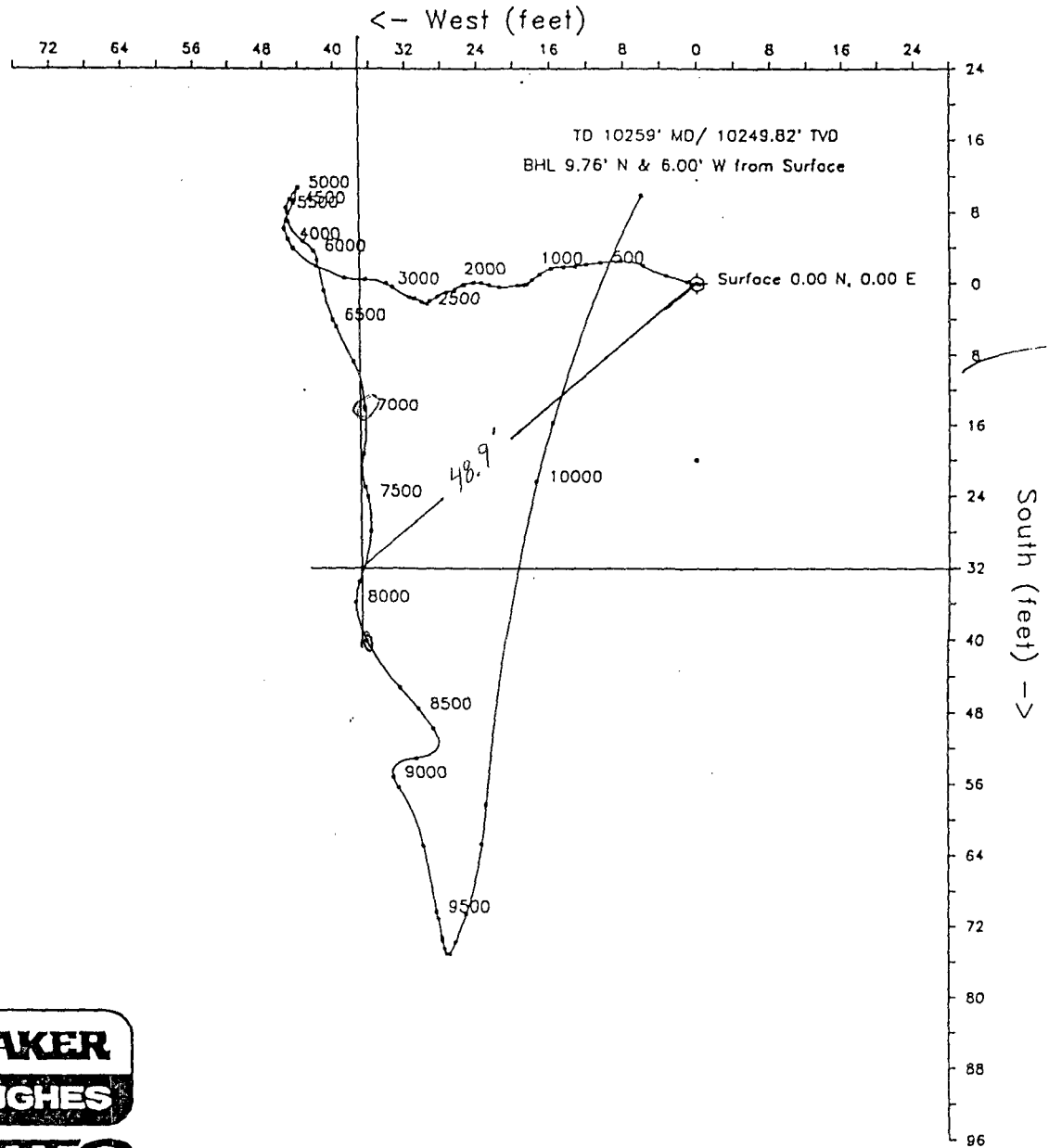
ARCO PERMIAN

Structure : DINAH 23 FED COM NO. 1

Slot : slot #1

Field : UNKNOWN

Location : EDDY CO., NEW MEXICO



BAKER
HUGHES
INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 E	0.00	-15.40
100.00	1.20	283.71	99.99	1.02 W	1.20	-15.15
200.00	1.59	285.75	199.96	3.37 W	0.39	-14.53
300.00	1.53	300.66	299.93	5.85 W	0.41	-13.47
400.00	1.47	265.21	399.89	8.28 W	0.92	-12.90
500.00	1.06	264.98	499.87	10.48 W	0.42	-13.09
600.00	0.74	260.02	599.86	12.04 W	0.33	-13.28
700.00	0.64	257.58	699.85	13.21 W	0.11	-13.51
800.00	0.86	274.00	799.84	14.50 W	0.30	-13.58
900.00	0.84	249.05	899.83	15.93 W	0.37	-13.79
1000.00	0.67	234.27	999.82	17.09 W	0.26	-14.39
1100.00	0.56	225.37	1099.82	17.91 W	0.14	-15.07
1200.00	0.25	247.04	1199.81	18.46 W	0.33	-15.50
1300.00	0.22	275.52	1299.81	18.86 W	0.12	-15.57
1400.00	0.44	260.05	1399.81	19.43 W	0.23	-15.62
1500.00	0.59	255.51	1499.81	20.30 W	0.16	-15.81
1600.00	0.82	279.71	1599.80	21.50 W	0.37	-15.82
1700.00	0.53	287.83	1699.79	22.65 W	0.30	-15.56
1800.00	0.47	276.70	1799.79	23.50 W	0.11	-15.37
1900.00	0.53	271.97	1899.79	24.38 W	0.07	-15.31
2000.00	0.82	245.90	1999.78	25.49 W	0.41	-15.58
2100.00	0.44	240.75	2099.77	26.48 W	0.38	-16.06
2200.00	0.66	256.21	2199.77	27.37 W	0.26	-16.39
2300.00	0.68	233.19	2299.76	28.41 W	0.27	-16.88
2400.00	0.39	238.11	2399.76	29.17 W	0.30	-17.41

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from wellhead.
 Bottom hole distance is 11.46 on azimuth 328.42 degrees from wellhead.
 Vertical section is from N 15.40 E 4.74 on azimuth 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

ARCO PERMIAN
DINAH 23 FED COM NO. 1, slot #1
UNKNOWN, EDDY CO., NEW MEXICO

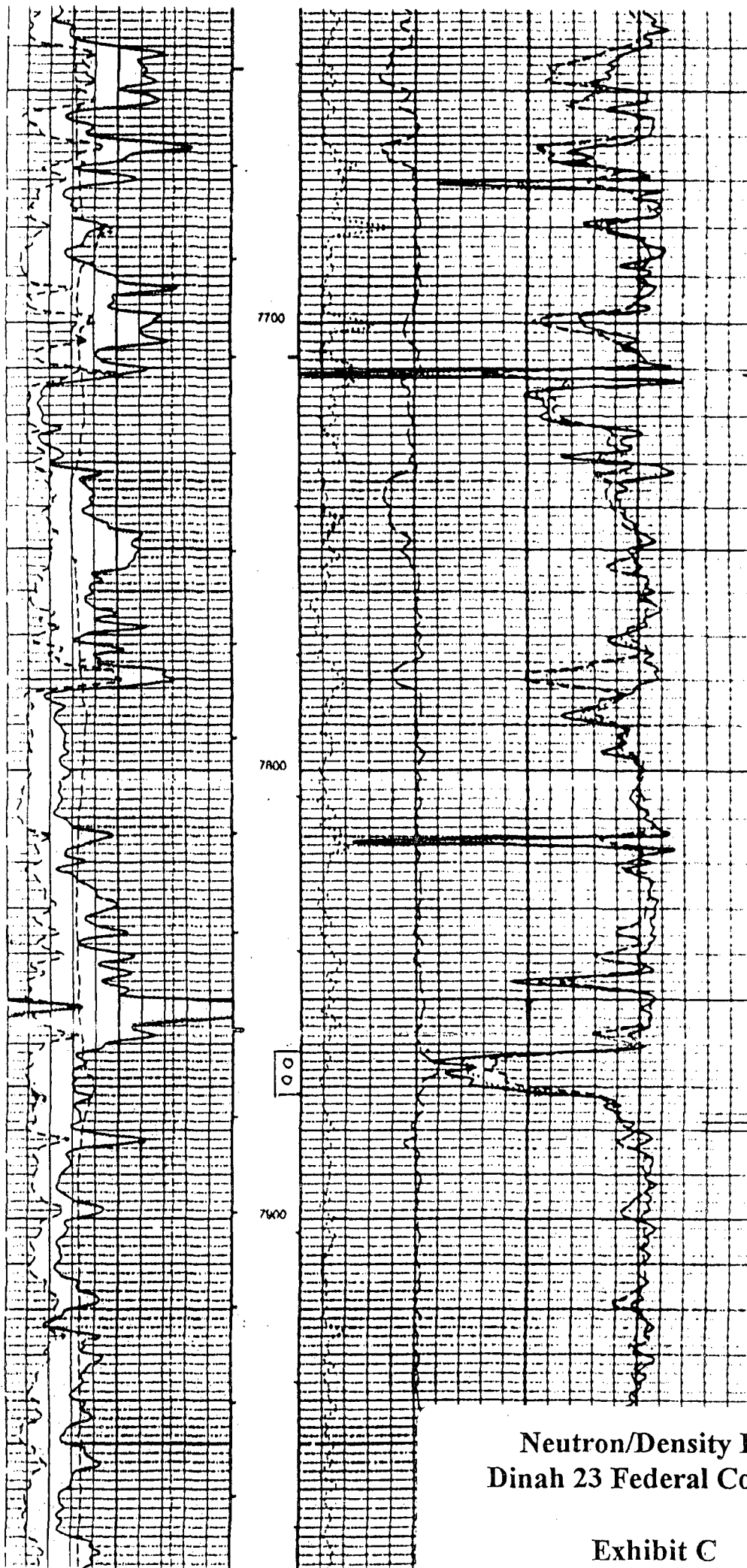
Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
2500.00	0.17	224.09	2499.76	2.29 S	0.22	-17.70
2600.00	0.57	309.44	2599.75	2.08 S	0.58	-17.49
2700.00	0.68	280.69	2699.75	1.66 S	0.33	-17.06
46.00	0.60	286.47	2745.74	1.54 S	0.22	-16.94
39.00	0.75	309.00	2938.73	0.45 S	0.16	-15.86
3196.00	0.75	264.00	3195.71	0.43 N	0.22	-14.98
3421.00	0.50	290.00	3420.70	0.61 N	0.17	-14.79
3678.00	1.00	294.00	3677.68	1.91 N	0.20	-13.50
3903.00	0.75	326.00	3902.65	3.93 N	0.24	-11.48
4128.00	0.50	348.00	4127.64	6.11 N	0.15	-9.30
4353.00	0.50	40.00	4352.63	7.82 N	0.19	-7.58
4545.00	0.50	15.00	4544.62	9.27 N	0.11	-6.13
4867.00	0.00	15.00	4866.62	10.63 N	0.16	-4.78
5023.00	0.00	15.00	5022.62	10.63 N	0.00	-4.78
5382.00	0.50	217.00	5381.61	9.38 N	0.14	-6.03
5639.00	0.75	163.00	5638.60	6.87 N	0.24	-8.53
5865.00	0.75	120.00	5864.58	4.72 N	0.24	-10.69
6090.00	0.75	169.00	6089.57	2.54 N	0.28	-12.87
15.00	1.00	167.00	6314.54	0.82 S	0.11	-16.23
39.00	1.25	155.00	6538.50	4.94 S	0.15	-20.35
6764.00	1.00	151.00	6763.45	8.88 S	0.12	-24.29
6989.00	1.75	175.00	6988.39	14.02 S	0.41	-29.43
7214.00	1.00	194.00	7213.32	19.35 S	0.39	-34.75
7439.00	1.00	159.00	7438.29	23.09 S	0.27	-38.49
7696.00	1.25	183.00	7695.24	27.98 S	0.21	-43.39

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from wellhead.
Bottom hole distance is 11.46 on azimuth 328.42 degrees from wellhead.
Vertical section is from N 15.40 E 4.74 on azimuth 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
7922.00	1.75	199.00	7921.17	33.71 S 37.01 W	0.29	-49.11
8147.00	2.00	149.00	8146.06	40.32 S 36.10 W	0.71	-55.72
8373.00	1.25	135.00	8371.97	45.44 S 32.33 W	0.37	-60.85
98.00	1.75	145.00	8596.89	49.99 S 28.62 W	0.25	-65.40
25.00	2.00	263.00	8823.83	53.32 S 30.57 W	1.42	-68.72
9050.00	1.75	145.00	9048.77	56.61 S 32.49 W	1.43	-72.01
9271.00	2.00	168.00	9269.65	63.15 S 29.76 W	0.36	-78.55
9525.00	1.75	169.00	9523.51	71.29 S 28.09 W	0.10	-86.69
9600.00	1.75	170.41	9598.48	73.54 S 27.68 W	0.06	-88.95
9614.00	1.70	161.00	9612.47	73.95 S 27.58 W	2.05	-89.35
9642.00	2.00	162.60	9640.46	74.81 S 27.30 W	1.09	-90.21
9664.00	1.00	160.50	9662.45	75.36 S 27.12 W	4.55	-90.76
9694.00	1.20	45.90	9692.45	75.38 S 26.81 W	6.18	-90.79
9725.00	4.50	22.00	9723.41	74.03 S 26.12 W	11.09	-89.43
9757.00	8.10	18.60	9755.21	70.73 S 24.93 W	11.31	-86.13
9803.00	11.98	7.78	9800.50	62.92 S 23.25 W	9.35	-78.32
9823.00	13.75	5.00	9819.99	58.50 S 22.76 W	9.35	-73.90
0041.00	9.25	16.00	10033.59	15.82 S 15.67 W	2.29	-31.22
59.00	5.25	29.00	10249.82	9.76 N 6.00 W	1.97	-5.64

PROJECTION TO CURRENT TD

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from wellhead.
Bottom hole distance is 11.46 on azimuth 328.42 degrees from wellhead.
Vertical section is from N 15.40 E 4.74 on azimuth 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ



Proposed
Wolfcamp
Zone
7862-72'
4SPF

Neutron/Density Log
Dinah 23 Federal Com. #1

Exhibit C

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural ResourcesOIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505Form C-101
Revised March 12, 1999Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address. Ricks Exploration, Inc. 3000 Oklahoma Tower, 210 Park Avenue Oklahoma City, Oklahoma 73102		² OGRID Number 168489
		³ API Number 30 - 015-28946
⁴ Property Code 25389	⁵ Property Name Dinah 23 Federal Com.	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17S	28E		1077	South	660	West	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17S	28E		1045	South	623	West	Eddy
⁹ Proposed Pool 1 Anderson-Wolfcamp					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3590 GR
¹⁶ Multiple	¹⁷ Proposed Depth PB 8100'	¹⁸ Formation Cisco	¹⁹ Contractor	²⁰ Spud Date ASAP

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48.5	560	575 sx	Circ.
12 1/4	9 5/8	36	2650	950 sx	Circ.
8 3/4	5 1/2	15.50 & 17	10560	1440 sx	TOC 5858' CBL

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. ND wellhead and install double BOP with tubing rams and blind rams.
2. Set CIBP at 9,806' with 10 ft. of cement on top to abandon Atoka perforations 9810-9817'.
3. Perforate Wolfcamp Zone 7,862-7,872', 4 spf.
4. TIH with tubing and packer, set at +/- 7,790'.
5. Acidize with 1,000 gals. 15% NEFE HCL acid with 50 ballsealers. Swab and flow to test.
6. Put well on production.
7. Perform 4-point well test and BHP test.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Bruce A. Stubbs

Title: Consulting Engineer

Date: 7-11-00

Phone: 505-624-2800

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval :

Attached ☐

DISTRICT I
P.O. Box 1200, Hobbs, NM 88241-1200

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer 201, Artesia, NM 88211-0710

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

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28946	Pool Code 96417	Pool Name Anderson-Wolfcamp
Property Code 25389	Property Name DINAH 23 FED COM	Well Number 1
OCRD No. 168849	Operator Name Ricks Exploration, Inc.	Elevation 3590

Surface Location

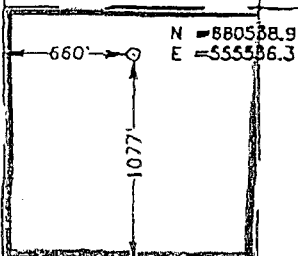
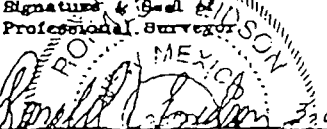
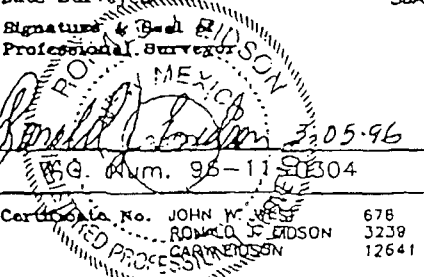
UL or lot No. M	Section 23	Township 17 S	Range 28 E	Lot Idn	Feet from the 1077	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. M	Section 23	Township 17S	Range 28E	Lot Idn	Feet from the 1045	North/South line South	Feet from the 623	East/West line West	County Eddy
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
-----------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT 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 Bruce A. Stubbs Printed Name Agent Title 7/11/00 Date	
					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 belief. MARCH 1, 1996 Date Surveyed  Signature of Professional Surveyor Professional Surveyor  JOHN W. WEST 676 RONALD J. EDSON 3239 CAROL ANN EDSON 12641	

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

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⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17S	28E		1077	South	660	West	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17S	28E		1045	South	623	West	Eddy

⁹ Proposed Pool 1 Anderson-Wolfcamp	¹⁰ Proposed Pool 2
---	-------------------------------

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3590 GR
¹⁶ Multiple	¹⁷ Proposed Depth PB 8100'	¹⁸ Formation Cisco	¹⁹ Contractor	²⁰ Spud Date ASAP

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48.5	560	575 sx	Circ.
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8 3/4	5 1/2	15.50 & 17	10560	1440 sx	TOC 5858' CBL

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4. TIH with tubing and packer, set at +/- 7,790'.
5. Acidize with 1,000 gals. 15% NEFE HCL acid with 50 ballsealers. Swab and flow to test.
6. Put well on production.
7. Perform 4-point well test and BHP test.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Bruce A. Stubbs

Title: Consulting Engineer

Date: 7-11-00

Phone: 505-624-2800

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

DISTRICT I
P.O. Box 1280, Hobbs, NM 88241-1280

State of New Mexico

Energy, Minerals and Natural Resources Department

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

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28946	Pool Code 96417	Pool Name Anderson-Wolfcamp
Property Code 25389	Property Name DINAH 23 FED COM	Well Number 1
OCRID No. 168849	Operator Name Ricks Exploration, Inc.	Elevation 3590

Surface Location

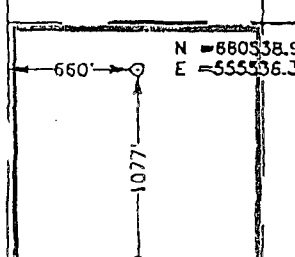
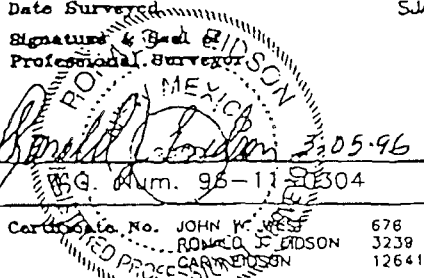
UL or lot No. M	Section 23	Township 17 S	Range 28 E	Lot Idn	Feet from the 1077	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. M	Section 23	Township 17S	Range 28E	Lot Idn	Feet from the 1045	North/South line South	Feet from the 623	East/West line West	County Eddy
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT 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 Bruce A. Stubbs Printed Name Agent Title 7/11/00 Date
					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 belief. MARCH 1, 1996 Date Surveyed Signature of Paul R. Edson Professional Surveyor  P.R. Edson M.G. Num. 96-11-2304 Certification No. JOHN K. WEST 676 RONALD J. EDSON 3239 CARL EDSON 12641

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural ResourcesForm C-101
Revised March 12, 1999District II

811 South First, Artesia, NM 88210

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Santa Fe, NM 87505Submit to Appropriate District Office
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1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address. Ricks Exploration, Inc. 3000 Oklahoma Tower, 210 Park Avenue Oklahoma City, Oklahoma 73102		² OGRID Number 168489
		³ API Number 30 - 015-28946
⁴ Property Code 25389	⁵ Property Name Dinah 23 Federal Com.	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17S	28E		1077	South	660	West	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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⁹ Proposed Pool 1 Anderson-Wolfcamp					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3590 GR
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²¹ Proposed Casing and Cement Program

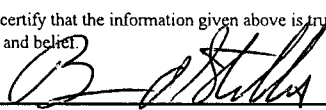
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6. Put well on production.
7. Perform 4-point well test and BHP test.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:



Printed name: Bruce A. Stubbs

Title: Consulting Engineer

Date: 7-11-00

Phone: 505-624-2800

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval :

Attached ☐

DISTRICT I
P.O. Box 1850, Hobbs, NM 88241-1850

State of New Mexico

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DISTRICT III
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DISTRICT IV
P.O. Box 2054, Santa Fe, N.M. 87504-2054

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28946	Pool Code 96417	Pool Name Anderson-Wolfcamp
Property Code 25389	Property Name DINAH 23 FED COM	Well Number 1
OCRID No. 168849	Operator Name Ricks Exploration, Inc.	Elevation 3590

Surface Location

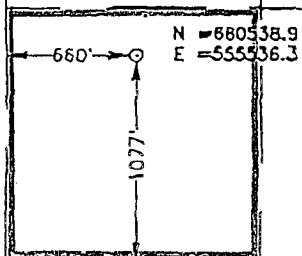
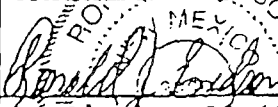
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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				OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Bruce A. Stubbs Printed Name Agent 7/11/00 Date		
				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 belief. MARCH 1, 1996 Date Surveyed  Signature of Registered Professional Surveyor RONALD J. EDSON Professional Surveyor 3-05-96 B.G. Num. 96-11-304 Certificate No. JOHN W. WESS 678 RONALD J. EDSON 3239 CARMELUSON 12641		

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101

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OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

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²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Bruce A. Stubbs

Title: Consulting Engineer

Date: 7-11-00

Phone: 505-624-2800

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval :

Attached ☐

DISTRICT I

P.O. Box 1950, Hobbs, NM 88241-1950

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P.O. Drawer DE, Artesia, NM 88211-0719

DISTRICT III

10 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28946	Pool Code 96417	Pool Name Anderson-Wolfcamp
Property Code 25389	Property Name DINAH 23 FED COM	Well Number 1
OGRID No. 168849	Operator Name Ricks Exploration, Inc.	Elevation 3590

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UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101

Revised March 12, 1999

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☐ AMENDED REPORT

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Signature:

Printed name: Bruce A. Stubbs

Title: Consulting Engineer

Date: 7-11-00

Phone: 505-624-2800

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Expiration Date:

Conditions of Approval :

Attached ☐

DISTRICT I

P.O. Box 1950, Hobbs, NM 88241-1950

State of New Mexico

Energy, Minerals and Natural Resources Department

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P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

10 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2056, Santa Fe, NM 87504-2056

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28946	Pool Code 96417	Pool Name Anderson-Wolfcamp
Property Code 25389	Property Name DINAH 23 FED COM	Well Number 1
OCRD No. 168849	Operator Name Ricks Exploration, Inc.	Elevation 3590

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UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

July 5, 2000

Lori Wrotenbery
Director
Oil Conservation Division

Pecos Petroleum Engineering, Inc.
P. O. Box 1794
Roswell, New Mexico 88202-1794

Attention: Bruce A. Stubbs

Re: Application dated June 14, 2000 for Ricks Exploration, Inc. to recomplate the existing RSE Partners-I, L.P. Dinah "23" Federal Com. Well No. 1 (API No. 30-015-28946), located at a surface location 1077 feet from the South line and 660 feet from the West line (Unit M) of Section 23, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico, into the Wolfcamp formation at an unorthodox subsurface gas well location within the W/2 of Section 23.

Dear Mr. Stubbs:

My review of your application indicates that this wellbore is within one-half mile of the Anderson-Wolfcamp Pool, which is an oil pool governed under Division Rule 104.B (1) requiring 40-acre spacing and for wells to be located no closer than 330 feet from the boundary of the 40-acre tract. Under Division Rule 104.A (2) this Wolfcamp recompletion will be subject to these rules and not those for a deep gas well completion in southeast New Mexico [Division Rule 104.C (2)], therefore an application for an exception to Division Rule 104.B (1) will be required.

Please submit the required data and notice pursuant to Division Rules 104.F and 1207.A (2). Also provide me with the Artesia district office of the Division's recognized depths of the top and base of the Wolfcamp formation in this wellbore. With this data please provide me with the corresponding subsurface locations of this wellbore [see Division Rule 111.A (6)].

Should you have any questions or comments concerning this matter, please contact me in Santa Fe at (505) 827-8185. Thank you.

Sincerely,

Michael E. Stogner
Chief Hearing Officer/Engineer

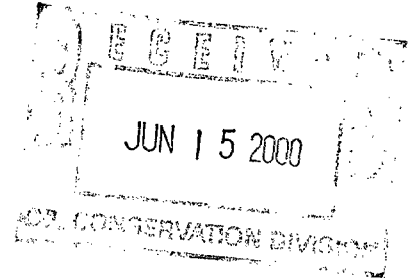
cc: New Mexico Oil Conservation Division – Artesia
Ms. Lori Wrotenbery, Director - NMOCD, Santa Fe

NSL 7/5/00

Pecos Petroleum Engineering, Inc.
P.O. Box 1794
200 West First St., Suite 536
Roswell, New Mexico 88202-1794
505-624-2800

June 14, 2000

Mr. Michael E. Stogner
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Re: Exception to an Unorthodox Location
Ricks Exploration, Inc.
Dinah "23" Federal Com. #1 (API No. 30-015-28946)
Surface Location 1077' FSL & 660' FWL
Producing Zone Location 1045' FSL & 623' FWL
Section 23-T17S-R28E
Eddy County, New Mexico

Dear Mr. Stogner:

As per our conversation on June 14th concerning Rule 111.B.(3) and the 50 foot "window" provided for deviation from the surface location, Ricks Exploration, Inc. ("Applicant") hereby requests an exception from an unorthodox location for the recompletion of the Dinah "23" Federal Com. #1 well, and in support thereof states:

1. The well was originally drilled to a total depth of 10,560 ft. and completed in the Atoka from 9810-9817'. The Atoka zone has cumulative production of 78,478 MCFG and 960 BO through 12/99 and is currently producing 7 to 10 MCFGD. The well is now at the economic limit and the Applicant proposes to recomplete the well in the potential gas zone in the Wolfcamp from 7862-7872'.
2. The well was drilled in an unorthodox location to test the Morrow formation within a standard 320-acre gas spacing and proration unit comprising the W/2 of Section 23, T17S, R28E, NMPM. The unorthodox location was approved by Administrative order NSL-3660, dated April 19, 1996 and was amended on January 6, 1997 with Administrative Order NSL-3660 (DD).
3. A directional deviation survey was run on the well to determine direction and displacement from the surface location. The surface location is at 1077' FSL & 660' FWL of section 23, the location of the Wolfcamp Zone, from 7862'-7872', is at 1045' FSL & 623' FWL of section 23. Pursuant to Rule 104.C.(2)(a) the well can be no closer than 660' from the outer

boundary of the quarter section on which the well is located. Therefore, the wellbore at the Wolfcamp interval is at an unorthodox location. Rule 111.B.(3) provides for a 50 foot "window" for deviation from the surface location and would provide an exception from the unorthodox location. The bottom-hole-location of the proposed producing zone is 32 ft. south and 37 ft. west of the surface location. This a displacement of 48.9 ft. to the southwest from the surface location.

4. Approval of this exception will result in the production hydrocarbons which otherwise will not be produced, will not adversely affect correlative rights and be in the best interest of conservation.
5. Ricks Exploration, Inc. is the operator of the Dinah 23 Federal Com. #1.

Submitted in conjunction with this request, are the following documents:

1. Exhibit "A" Land Plat indicating offset leases and wells
2. Exhibit "B" Directional Survey
3. Exhibit "C" Porosity Log indicating the zone of interest
4. Form C-101 Application for Permit to Drill, Re-enter, Deepen, Plugback, or Add a Zone
5. Form C-102 Well Location and Acreage Dedication Plat

Wherefore, Ricks Exploration, Inc. requests that the Application be reviewed and that, after proper review as required by law and the rules of the Division, the Division approve the exception to an unorthodox location as hereinabove described.

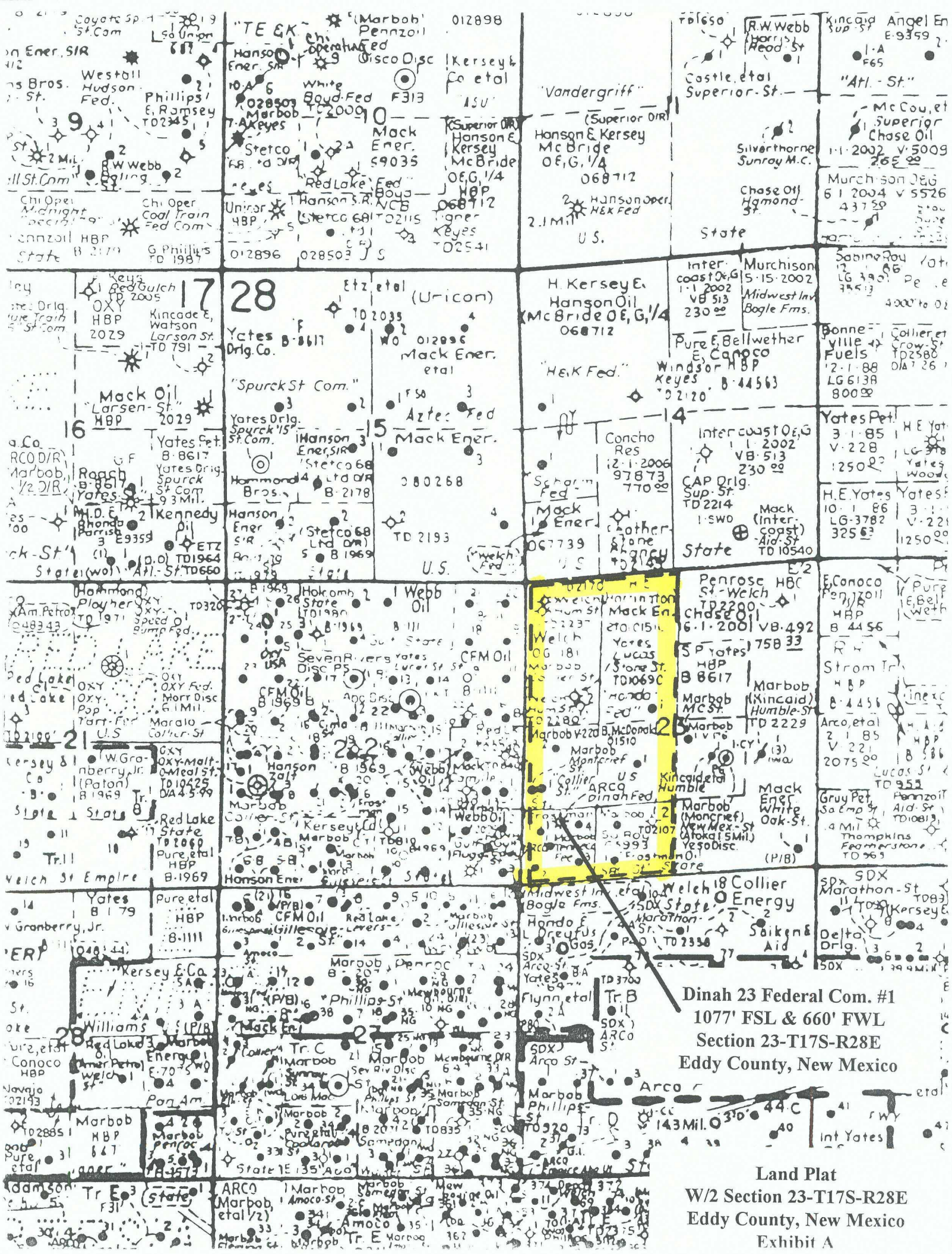
Thank you for your prompt attention to this matter. Should you need additional information, please call Bruce Stubbs at 505-624-2800 or Cliff Merritt at 405-516-1135.

Sincerely,



Bruce A. Stubbs, P.E.
Consulting Engineer

xc: Mr. Cliff Merritt
Ricks Exploration, Inc.
3000 Oklahoma Tower
210 Park Avenue
Oklahoma City, Oklahoma 73102



ARCO PERMIAN
DINAH 23 FED COM NO. 1

slot #1
UNKNOWN M-23-17-28
EDDY CO., NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : SIDETRACK
Our ref : svy689
License :

Date printed : 3-Sep-96
Date created : 28-Jun-96
Last revised : 1-Jul-96

Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

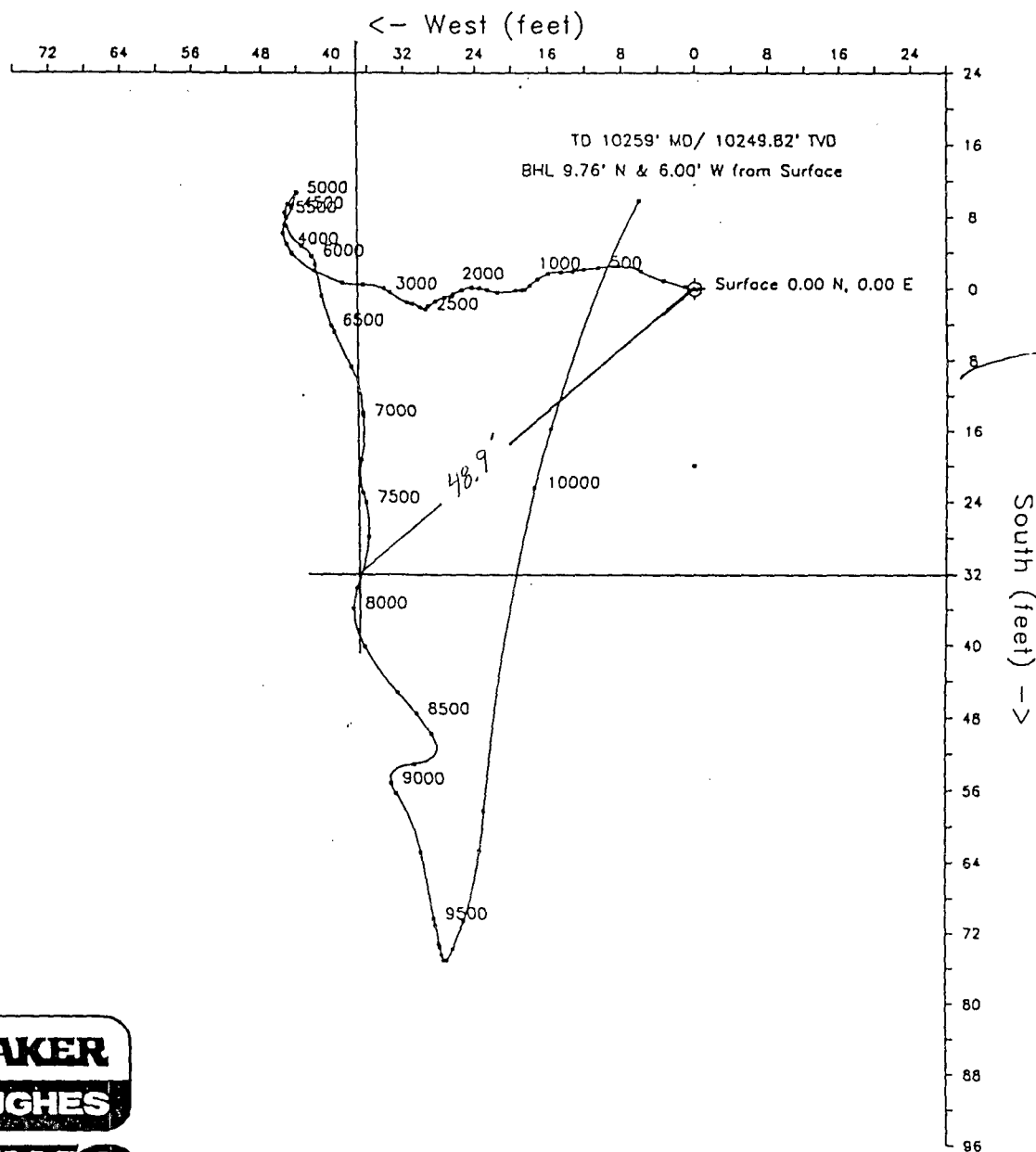
ARCO PERMIAN

Structure : DINAH 23 FED COM NO. 1

Slot : slot #1

Field : UNKNOWN

Location : EDDY CO., NEW MEXICO



BAKER
HUGHES
INTEQ

ARCO PERMIAN

DINAH 23 FED COM NO. 1, slot #1
UNKNOWN, EDDY CO., NEW MEXICO

SURVEY LISTING Page 1
Your ref : SIDETRACK
Last revised : 1-Jul-96

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00	-15.40
100.00	1.20	283.71	99.99	0.25 N	1.20	-15.15
200.00	1.59	285.75	199.96	0.87 N	0.39	-14.53
300.00	1.53	300.66	299.93	1.93 N	0.41	-13.47
400.00	1.47	265.21	399.89	2.50 N	0.92	-12.90
500.00	1.06	264.98	499.87	2.32 N	0.42	-13.09
600.00	0.74	260.02	599.86	2.12 N	0.33	-13.28
700.00	0.64	257.58	699.85	1.89 N	0.11	-13.51
800.00	0.86	274.00	799.84	1.82 N	0.30	-13.58
900.00	0.84	249.05	899.83	1.61 N	0.37	-13.79
1000.00	0.67	234.27	999.82	1.01 N	0.26	-14.39
1100.00	0.56	225.37	1099.82	0.33 N	0.14	-15.07
1200.00	0.25	247.04	1199.81	0.10 S	0.33	-15.50
1300.00	0.22	275.52	1299.81	0.17 S	0.12	-15.57
1400.00	0.44	260.05	1399.81	0.21 S	0.23	-15.62
1500.00	0.59	255.51	1499.81	0.41 S	0.16	-15.81
1600.00	0.82	279.71	1599.80	0.42 S	0.37	-15.82
1700.00	0.53	287.83	1699.79	0.16 S	0.30	-15.56
1800.00	0.47	276.70	1799.79	0.03 N	0.11	-15.37
1900.00	0.53	271.97	1899.79	0.10 N	0.07	-15.31
2000.00	0.82	245.90	1999.78	0.18 S	0.41	-15.58
2100.00	0.44	240.75	2099.77	0.66 S	0.38	-16.06
2200.00	0.66	256.21	2199.77	0.98 S	0.26	-16.39
2300.00	0.68	233.19	2299.76	1.48 S	0.27	-16.88
2400.00	0.39	238.11	2399.76	2.01 S	0.30	-17.41

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from wellhead.

Bottom hole distance is 11.46 on azimuth 328.42 degrees from wellhead.

Vertical section is from N 15.40 E 4.74 on azimuth 0.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

1077
11
1088

2"
1320
1084
232

ARCO PERMIAN

DINAH 23 FED COM NO. 1, slot #1
UNKNOWN, EDDY CO., NEW MEXICO

SURVEY LISTING Page 2
Your ref : SIDETRACK
Last revised : 1-Jul-96

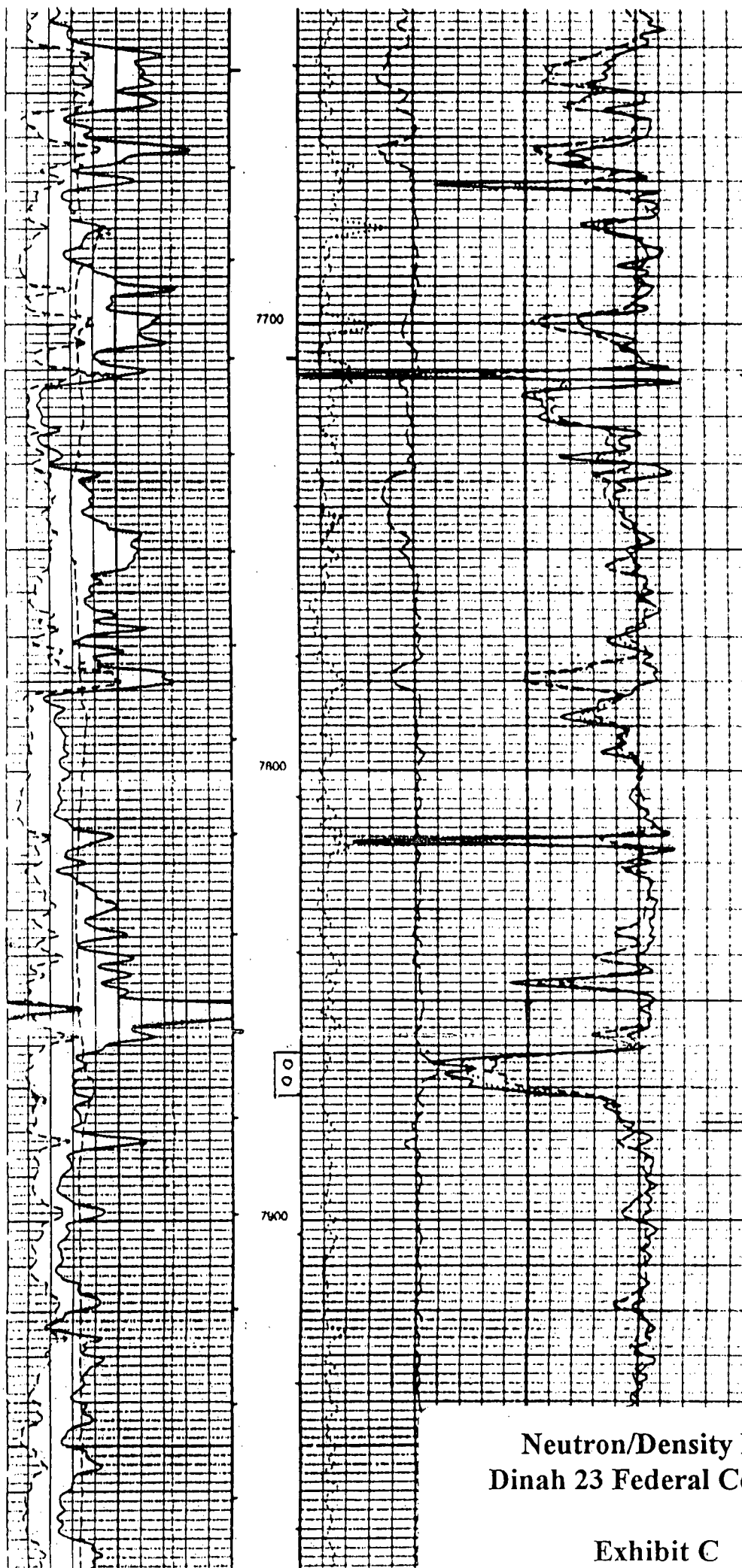
Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
2500.00	0.17	224.09	2499.76	2.29 S	0.22	-17.70
2600.00	0.57	309.44	2599.75	2.08 S	0.58	-17.49
2700.00	0.68	280.69	2699.75	1.66 S	0.33	-17.06
46.00	0.60	286.47	2745.74	1.54 S	0.22	-16.94
39.00	0.75	309.00	2938.73	0.45 S	0.16	-15.86
3196.00	0.75	264.00	3195.71	0.43 N	0.22	-14.98
3421.00	0.50	290.00	3420.70	0.61 N	0.17	-14.79
3678.00	1.00	294.00	3677.68	1.91 N	0.20	-13.50
3903.00	0.75	326.00	3902.65	3.93 N	0.24	-11.48
4128.00	0.50	348.00	4127.64	6.11 N	0.15	-9.30
4353.00	0.50	40.00	4352.63	7.82 N	0.19	-7.58
4545.00	0.50	15.00	4544.62	9.27 N	0.11	-6.13
4867.00	0.00	15.00	4866.62	10.63 N	0.16	-4.78
5023.00	0.00	15.00	5022.62	10.63 N	0.00	-4.78
5382.00	0.50	217.00	5381.61	9.38 N	0.14	-6.03
5639.00	0.75	163.00	5638.60	6.87 N	0.24	-8.53
5865.00	0.75	120.00	5864.58	4.72 N	0.24	-10.69
6090.00	0.75	169.00	6089.57	2.54 N	0.28	-12.87
15.00	1.00	167.00	6314.54	0.82 S	0.11	-16.23
39.00	1.25	155.00	6538.50	4.94 S	0.15	-20.35
6764.00	1.00	151.00	6763.45	8.88 S	0.12	-24.29
6989.00	1.75	175.00	6988.39	14.02 S	0.41	-29.43
7214.00	1.00	194.00	7213.32	19.35 S	0.39	-34.75
7439.00	1.00	159.00	7438.29	23.09 S	0.27	-38.49
7696.00	1.25	183.00	7695.24	27.98 S	0.21	-43.39

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from wellhead.
Bottom hole distance is 11.46 on azimuth 328.42 degrees from wellhead.
Vertical section is from N 15.40 E 4.74 on azimuth 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
7922.00	1.75	199.00	7921.17	33.71 S	0.29	-49.11
8147.00	2.00	149.00	8146.06	40.32 S	0.71	-55.72
8373.00	1.25	135.00	8371.97	45.44 S	0.37	-60.85
98.00	1.75	145.00	8596.89	49.99 S	0.25	-65.40
25.00	2.00	263.00	8823.83	53.32 S	1.42	-68.72
9050.00	1.75	145.00	9048.77	56.61 S	1.43	-72.01
9271.00	2.00	168.00	9269.65	63.15 S	0.36	-78.55
9525.00	1.75	169.00	9523.51	71.29 S	0.10	-86.69
9600.00	1.75	170.41	9598.48	73.54 S	0.06	-88.95
9614.00	1.70	161.00	9612.47	73.95 S	2.05	-89.35
9642.00	2.00	162.60	9640.46	74.81 S	1.09	-90.21
9664.00	1.00	160.50	9662.45	75.36 S	4.55	-90.76
9694.00	1.20	45.90	9692.45	75.38 S	6.18	-90.79
9725.00	4.50	22.00	9723.41	74.03 S	11.09	-89.43
9757.00	8.10	18.60	9755.21	70.73 S	11.31	-86.13
9803.00	11.98	7.78	9800.50	62.92 S	9.35	-78.32
9823.00	13.75	5.00	9819.99	58.50 S	9.35	-73.90
10041.00	9.25	16.00	10033.59	15.82 S	2.29	-31.22
10059.00	5.25	29.00	10249.82	9.76 N	1.97	-5.64
				23.25 W		
				22.76 W		
				15.67 W		
				6.00 W		

PROJECTION TO CURRENT TD

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from wellhead.
Bottom hole distance is 11.46 on azimuth 328.42 degrees from wellhead.
Vertical section is from N 15.40 E 4.74 on azimuth 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ



Proposed
Wolfcamp
Zone
7862-72'
4SPF

Neutron/Density Log
Dinah 23 Federal Com. #1

District I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
Revised March 12, 1999

District II
811 South First, Artesia, NM 88210

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address. Ricks Exploration, Inc. 3000 Oklahoma Tower, 210 Park Avenue Oklahoma City, Oklahoma 73102		² OGRID Number 168489
		³ API Number 30 - 015-28946
⁴ Property Code 25389	⁵ Property Name Dinah 23 Federal Com.	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17S	28E		1077	South	660	West	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17S	28E		1045	South	623	West	Eddy

⁹ Proposed Pool 1 Empire Wolfcamp	¹⁰ Proposed Pool 2 Red Lake Wolfcamp
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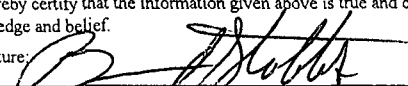
¹¹ Work Type Code P	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3590 GR
¹⁶ Multiple	¹⁷ Proposed Depth PB 8100'	¹⁸ Formation Cisco	¹⁹ Contractor	²⁰ Spud Date ASAP

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48.5	560	575 sx	Circ.
12 1/4	9 5/8	36	2650	950 sx	Circ.
8 3/4	5 1/2	15.50 & 17	10560	1440 sx	TOC 5858' CBL

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

1. ND wellhead and install double BOP with tubing rams and blind rams.
2. Set CIBP at 9,806' with 10 ft. of cement on top to abandon Atoka perforations 9810-9817'.
3. Perforate Wolfcamp Zone 7,862-7,872', 4 spf.
4. TIH with tubing and packer, set at +/- 7,790'.
5. Acidize with 1,000 gals. 15% NEFE HCL acid with 50 ballsealers. Swab and flow to test.
6. Put well on production.
7. Perform 4-point well test and BHP test.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Bruce A. Stubbs			
Title: Consulting Engineer		Approved by:	
Date: 6-6-00		Title:	
Phone: 505-624-2800		Approval Date:	
		Expiration Date:	
		Conditions of Approval : Attached ☐	

DISTRICT I
P.O. Box 1959, Hobbs, NM 88241-1959

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name Empire, South, Morrow
Property Code	Property Name DINAH 23 FED COM	Well Number 1
OGRD No. 000990	Operator Name ARCO PERMIAN	Elevation 3590

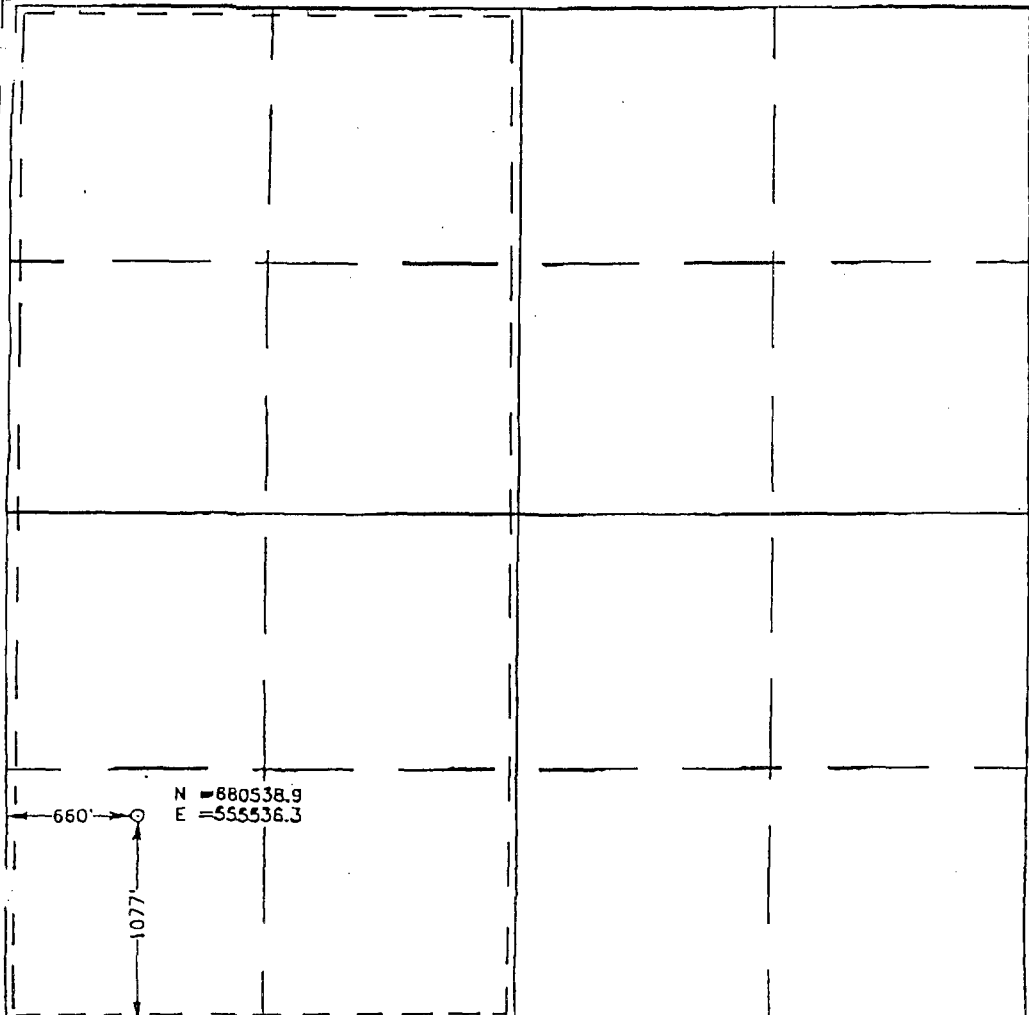
Surface Location

UL or lot No. M	Section 23	Township 17 S	Range 28 E	Lot Idn	Feet from the 1077	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

 N = 880538.9 E = 555536.3 660' 1077'	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Ken W. Gosnell</u> Signature Ken W. Gosnell Printed Name Agent Title March 28, 1996 Date 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 belief. MARCH 1, 1996 Date Surveyed Signature & Seal of Professional Surveyor JOHN W. EDSON Professional Surveyor March 1, 1996 WSG. Num. 98-11-0304 Certificate No. JOHN W. EDSON 676 RONALD J. EDSON 3239 CARMEL EDSON 12641
--	---



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

April 19, 1996

ARCO Permian
P. O. Box 1610
Midland, Texas 79702
Attention: David B. Pearcy

Administrative Order NSL-3660

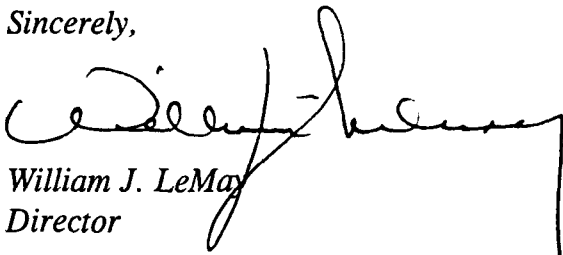
Dear Mr. Pearcy:

Reference is made to your application dated March 29, 1996 for approval to drill the Dinah "23" Federal Com Well No. 1 at an unorthodox gas well location to test the Morrow formation 1077 feet from the South line and 660 feet from the East line (Unit M) of Section 23, Township 17 South, Range 28 East, NMPM, Undesignated South Empire-Morrow Gas Pool or Undesignated Aid-Morrow Gas Pool, Eddy County, New Mexico. The W/2 of said Section 23 shall be dedicated to the well to form a standard 320-acre gas spacing and proration unit.

The application has been duly filed under the provisions of Rule 104.F of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10533, issued by the Oil Conservation Commission in Case 11,351 on January 18, 1996.

By the authority granted me under the provisions of Division General Rule 104.F(2), the above-described unorthodox gas well location is hereby approved.

Sincerely,


William J. LeMay
Director

WJL/MES/kv

cc: Oil Conservation Division - Artesia
U. S. Bureau of Land Management - Carlsbad



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

January 6, 1997

ARCO Permian
P. O. Box 1610
Midland, Texas 79702
Attention: Charles W. Knight, Jr.

AMENDED Administrative Order NSL-3660 (DD)

Dear Mr. Knight:

By Division Administrative Order NSL-3660, dated April 19, 1996, authorization was given ARCO Permian ("ARCO") to drill its Dinah "23" Federal Com. Well No. 1 (API No. 30-015-28946) at an unorthodox gas well location to test the Morrow formation within a standard 320-acre gas spacing and proration unit comprising the W/2 of Section 23, Township 17 South, Range 28 East, NMPM, Undesignated South Empire-Morrow Gas Pool or Undesignated Aid-Morrow Gas Pool, Eddy County, New Mexico, 1077 feet from the South line and 660 feet from the West line (Unit M) of said Section 23.

Reference is now made to your letter with attachments dated December 5, 1996 and to the Division's well file and records, whereby an amendment should be issued in this order to indicate that this well was sidetracked and directionally drilled in order to straighten the wellbore back to its intended vertical course and to accurately reflect the actual bottom-hole location of this wellbore.

The Division Director Finds That:

- (1) This application was originally approved under the provisions of Division General Rule 104.F(2);
- (2) This amendment has been duly filed under the provisions of Rule 111(D) and (E) of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995;
- (3) While drilling the wellbore had deviated such that ARCO begin directional drilling

operations at a depth of 9,801 feet in order to straighten the hole back to the north towards its original surface location before total depth was reached; and,

(4) Supporting data submitted with this application indicates that:

-- (a) -- the maximum deviation within the wellbore to the south occurred at a measured depth of approximately 9,664 feet, at which point the subsurface location was approximately 1002 feet from the South line of said Section 23;

(b) maximum deviation to the west occurred at a measured depth of approximately 4,200 feet, at which point the subsurface location was approximately 615 feet from the West line of said Section 23;

(c) subsurface location at the kick-off point (9,801 feet) was approximately 1014 feet from the South line and 637 feet from the West line of said section 23;

(d) at a measured depth of 10,259 feet, being the deepest survey point within the wellbore, the subsurface location is approximately 1067 feet from the South line and 654 feet from the West line of said Section 23;

(d) total depth of this well is 10,560 feet; and,

(e) the Morrow perforated interval within this wellbore is from 9,810 feet to 9,817 feet;

IT IS THEREFORE ORDERED THAT:

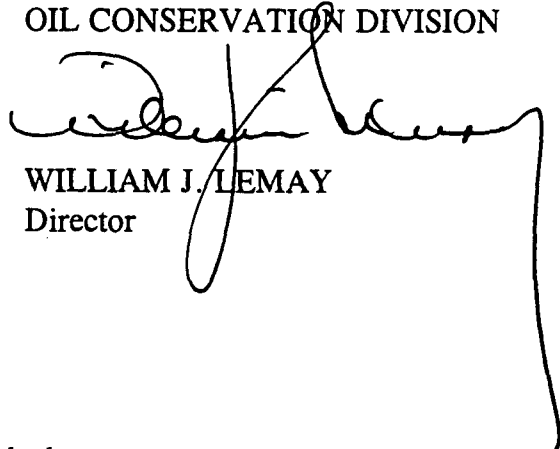
(1) Division Administrative Order NSL-3660, dated April 19, 1996, is hereby amended to properly reflect the actual subsurface path of the Dinah "23" Federal Com. Well No. 1 (API No. 30-015-28946), as indicated in the findings above.

(2) All other provisions of said Order NSL-3660 not in conflict with this change shall remain in full force and effect until further notice.

(3) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



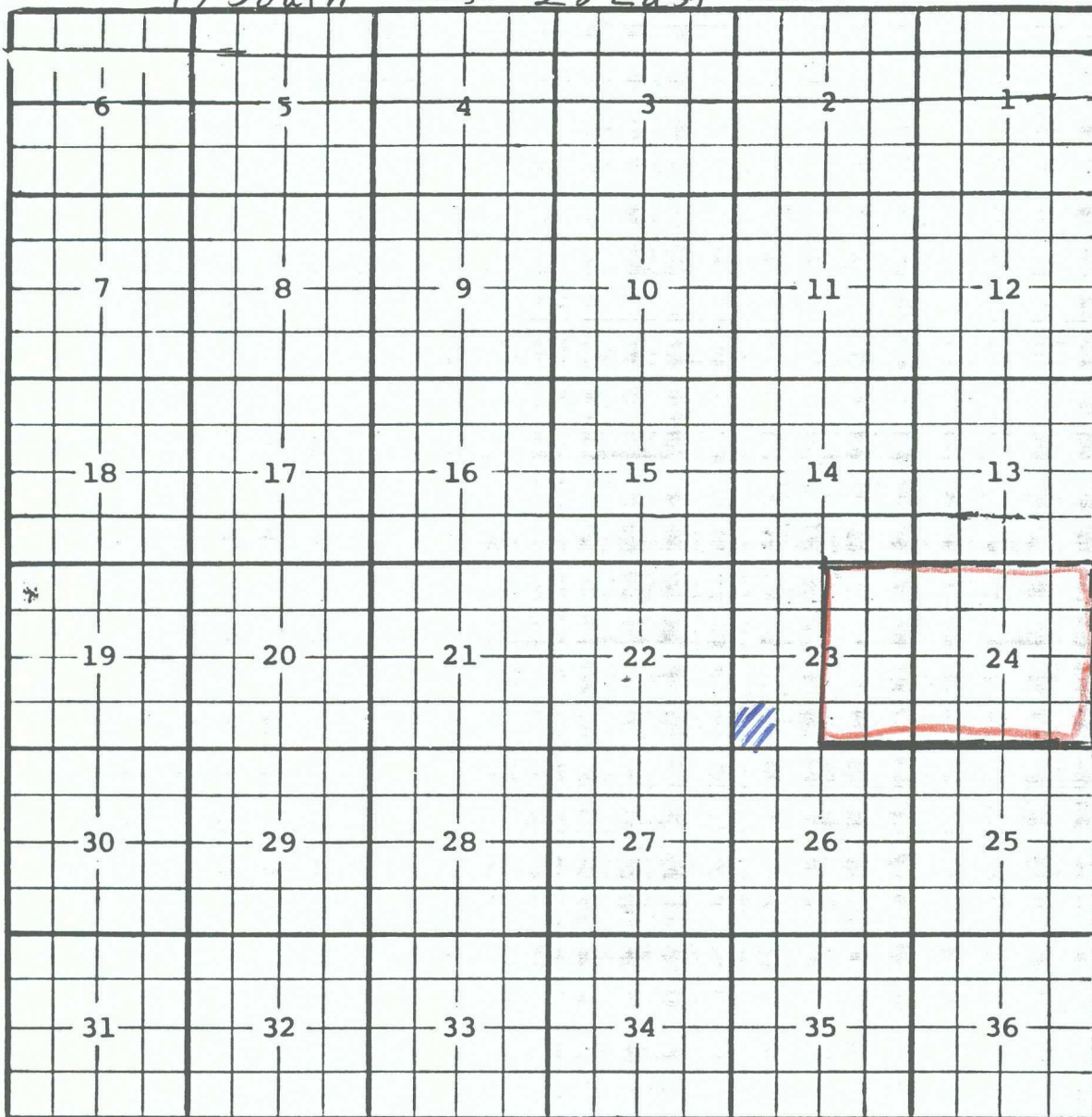
WILLIAM J. LEMAY
Director

S E A L

cc: Oil Conservation Division - Artesia
U. S. Bureau of Land Management - Carlsbad
File: NSL-3660 /

County Eddy Pool Anderson-Wolfcamp

TOWNSHIP 17 South Range 28 East NMPM



Description: $\frac{E}{2}$ Sec. 23, All Sec. 24 (R-10951, 2-4-98)

COUNTY *Eddy*

POOL *Empire-Wolfcamp*

TOWNSHIP *17-South*

RANGE *28-East*

NMPM *Abandoned*

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

(Hand-drawn red outline around Section 32 and a blue mark in Section 23)

Description: All Sec. 32, (R-561, 12-16-54).

Ext: ^W1/2 Sec. 29, (R-986, 4-29-57).

County Eddy Pool South Empire-Wolfcamp

TOWNSHIP 17 South Range 28 East NMPM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Description: Sec. 36 $\frac{1}{2}$ $\frac{NE}{4}$ (L-7076-9-27-82)

Ext: $\frac{5}{8}$ $\frac{SE}{4}$ Sec. 36 (R-7503, 4-20-84)

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address RSE Partners-I, L.P. 3141 Hood Street, Suite 350 Dallas, Texas 75219		OGRID Number 174423
		Reason for Filing Code CH Z-1-2000
API Number 30 - 0 15-28946	Pool Name EMPIRE ATOKA	Pool Code 76375
Property Code 18890-25389	Property Name DINAH 23 FED COM	Well Number 1

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	23	17S	28E		1077	S	660	W	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lee Code S	Producing Method Code F	Gas Connection Date 05-01-97	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
138648	Amoco Pipeline Trucking Co. 502 NW Avenue Levelland, TX 79336	2818547	O	M-23-17S-28E
000990	ARCO Permian P. O. Box 1089 Eunice, NM 88231	2818548	G	M-23-17S-28E

IV. Produced Water

POD	POD ULSTR Location and Description

V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
Choke Size	Oil	Water	Gas	AOF	Test Method

"I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Marty Massie*
Printed name: Marty Massie
Title: Engineering Admin.
Date: 2-2-2000 Phone: (915) 683-8233

OIL CONSERVATION DIVISION

Approved by: *Jim W. Gurn*
Title: *District Supervisor*
Approval Date: *2/23/00*

"If this is a change of operator fill in the OGRID number and name of the previous operator

P. M. Scarborough L.M. Scarborough Land Director 2/1/2000
Previous Operator Signature Printed Name Title Date
ARCO Oil and Gas Company OGRID #000990

Previous Operator Signature	Printed Name	Title	Date
-----------------------------	--------------	-------	------

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.

30-015-28946

5. Indicate Type Of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☐

GAS WELL ☒

DRY ☐

OTHER ☐

b. Type of Completion:

NEW WELL ☒

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF RESVR ☐

OTHER ☐

2. Name of Operator

ARCO PERMIAN

3. Address of Operator

P.O. BOX 1610, MIDLAND, TX 79702

4. Well Location

Unit Letter M : 1077 Feet From The SOUTH Line and 2 660 Feet From The WEST Line

Section 23

Township 17S

Range 28E

NMPM

EDDY

County

10. Date Spudded

05-27-96

11. Date T.D. Reached

07-02-96

12. Date Compl.(Ready to Prod.)

08-07-96

13. Elevations(DF & RKB, RT, GR, etc.)

3590 GR

14. Elev. Casinghead

15. Total Depth

10560

16. Plug Back T.D.

10180

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

X

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

9810-9817 ATOKA

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

PE-N/D-RG PE-HALS/MCFL DS-SI-GR

22. Was Well Cored

NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48.5	560	17 1/2	575 SX C CIRC CMT	0
9 5/8	36	2650	12 1/4	950 SX C CIRC CMT	0
5 1/2	15.5/17	10560	8 3/4	1440 SX H 5858 CBL	0

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	9770	9737

26. Perforation record (interval, size, and number)

10,224-252 (PLUGGED BACK)
9810-9817

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
10,224-252	CIBP AT 10,200 W/35' CMT
9810-9817	A-W/2200-GALS

28. PRODUCTION

Date First Production 08-07-96 Production Method (Flowing, gas lift, pumping - Size and type pump) FLOWING Well Status (Prod. or Shut-in) PROD

Date of Test <u>09-18-96</u>	Hours Tested <u>24</u>	Choke Size <u>14/64</u>	Prod'n For Test Period <u>25</u>	Oil - Bbl. <u>600</u>	Gas - MCF <u>600</u>	Water - Bbl. <u>0</u>	Gas - Oil Ratio <u>24,000</u>
Flow Tubing Press. <u>760</u>	Casing Pressure <u>PKR</u>	Calculated 24-Hour Rate <u>25</u>	Oil - Bbl. <u>600</u>	Gas - MCF <u>600</u>	Water - Bbl. <u>0</u>	Oil Gravity - API (Corr.) <u>52.9</u>	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

Test Witnessed By

30. List Attachments

LOGS, DST REPORT, INCLINATION REPORT

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Charles W. Knight, Jr.

Printed Name

CHARLES W. KNIGHT, JR

Title

AGENT

Date

01/27/97

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____	T. Canyon _____
T. Salt _____	T. Strawn _____ 9423
B. Salt _____	T. Atoka _____ 9726
T. Yates _____	T. Miss _____ 10375
T. 7 Rivers _____	T. Devonian _____
T. Queen _____ 1310	T. Silurian _____
T. Grayburg _____	T. Montoya _____
T. San Andres _____ 1998	T. Simpson _____
T. Glorieta _____ 3541	T. McKee _____
T. Paddock _____	T. Ellenburger _____
T. Blinebry _____	T. Gr. Wash _____
T. Tubb _____ 4997	T. Delaware Sand _____
T. Drinkard _____	T. Bone Springs _____
T. Abo _____ 5594	T. _____
T. Wolfcamp _____ 6912	T. _____
T. Penn _____ 8210	T. _____
T. Cisco (Bough C) _____	T. _____

Northeastern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout _____	T. Elbert _____
T. Mancos _____	T. McCracken _____
T. Gallup _____	T. Ignacio Otzte _____
Base Greenhorn _____	T. Granite _____
T. Dakota _____	T. _____
T. Morrison _____	T. _____
T. Todilto _____	T. _____
T. Entrada _____	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permian _____	T. _____
T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 3, from _____ to _____
No. 2, from _____ to _____	No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet _____
No. 2, from _____ to _____ feet _____
No. 3, from _____ to _____ feet _____

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	5594	5594	ANHY & DOLO				
5594	5770	176	SHALE				
5770	6912	1142	DOLO				
6912	9726	2814	LIMESTONE				
9726	9850	124	SD & SH & LIME				
9850	10144	290	LIMESTONE				
10144	10375	231	SD & SH				
10375	10508	133	SHALE				
10508	10560	52	LIMESTONE				

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address ARCO PERMIAN P.O.BOX 1610 MIDLAND, TX, 79702		² OGRID Number 000990	
		³ Reason for Filing Code NW	
⁴ API Number 30-0 30-015-28940 ²⁸⁹⁴⁶	⁵ Pool Name EMPIRE, SOUTH, MORROW		⁶ Pool Code 76400
⁷ Property Code 18890	⁸ Property Name DINAH 23 FED COM		⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	23	17S	28E		1077	SOUTH	660	WEST	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
S	F	09-01-96			

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
000734	AMOCO PIPELINE CO. 502 NW AVE LEVELLAND, TX 79336	2818547	0	M 23-17S-28E
007057	EL PASO NATURAL GAS CO. P.O.BOX 1492 EL PASO, TX, 79978	2818548	G	M 23-17S-28E
				RECEIVED SEP 18 1995 OIL CON. DIV. DIST. 2

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTB	²⁹ Perforations	³⁰ DHC, DC, MC
05-27-96	08-13-96	10560	10180	9810-9817	

³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement
17 1/2	13 3/8	560	575
12 1/4	9 5/8	2650	950
8 3/4	5 1/2	10560	1440
	2 3/8	9770	

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
08-13-96	09-01-96	09-01-96	24 HRS	1460	PKR

⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
18/64	35	0	2626		

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Ken W. Gosnell*

Printed name:
KEN W. GOSNELL

Title:
AGENT

Date: 09-16-96

Phone: 915 688-5672

OIL CONSERVATION DIVISION

Approved by: *Jim W. [Signature]*

Title: *District Supervisor*

Approval Date: *11/14/97*

⁴⁷ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name	Title	Date

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30-015-28940 28946

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

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 "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

ARCO Permian

3. Address of Operator

P. O. Box 1610, Midland, Texas 79702

4. Well Location

Unit Letter M : 1077 Feet From The South Line and 660 Feet From The West Line

Section 23 Township 17S Range 28E NMPM Eddy County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3590' GR

7. Lease Name or Unit Agreement Name

Dinah "23" Fed Com

8. Well No.

1

9. Pool name or Wildcat

Empire, South, Morrow

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☒

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

TD'd 12-1/4" hole @ 2650'. RIH with 9-5/8" 36# csg to 2650'. Cmt'd w/400 sx Poz "C" + additives, WOC?

(yld 2.60) followed by 500 sx "C"

(yld 1.32). Circ'd cmt to surf. WOC. Press test csg to 1000# for 30 mins. DA with 8-3/4" bit.

6-17-96 - DST #1 9780-9793'. RIH w/directional drilling motor. TD'd 8-3/4" hole @ 10,560' on 7/2/96. Ran OH logs. RIH with 5-1/2" 15.5/17# csg to 10,560'. Cmt'd w/1440 sx "H" + additives (yld 1.2). Did not circ cmt. RR 7/5/96. Ran Temp survey. TOC 5800'.

7-19-96 - RUPU. CO to 10,381' PBD. Ran CBL. TOC 5858'. Perf Morrow from 10,224-252'. Ran BHP. Set CIBP @ 10,200' w/20' cmt. Perf Morrow from 9810-9817'. Acidz w/2200 gals. Flow test. RD PU 8/13/96.

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

SIGNATURE

Ken W. Gosnell

TITLE

Agent

DATE

9/16/96

TYPE OR PRINT NAME

Ken W. Gosnell

915/688-5672

TELEPHONE NO.

(This space for State Use)

Jim W. Green

District Supervisor

APPROVED BY

TITLE

DATE

11/4/97

CONDITIONS OF APPROVAL, IF ANY:

9-2-96 - In 24 hrs flowed 2626 MCF, 35 BO, 0 BW on 18/64" choke & 1460# FTP.

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.

30-015-28940 28946

5. Indicate Type Of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

DINAH 23 FED COM

8. Well No.

1

9. Pool name or Wildcat

EMPIRE, MORROW, SOUTH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☐

GAS WELL ☒

DRY ☐

OTHER ☐

b. Type of Completion:

NEW WELL ☒

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF RESVR ☐

OTHER ☐

2. Name of Operator

ARCO PERMIAN

3. Address of Operator

P.O. BOX 1610, MIDLAND, TX 79702

4. Well Location

Unit Letter **M** : **1077** Feet From The **SOUTH** Line and **660** Feet From The **WEST** Line

Section **23**

Township **17S**

Range **28E**

NMPM

EDDY

County

10. Date Spudded

05-27-96

11. Date T.D. Reached

07-02-96

12. Date Compl.(Ready to Prod.)

08-13-96

13. Elevations(DF & RKB, RT, GR, etc.)

3590 GR

14. Elev. Casinghead

15. Total Depth

10560

16. Plug Back T.D.

10180

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

X

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

9810-9817 MORROW

20. Was Directional Survey Made

YES

21. Type Electric and Other Logs Run

PE-N/D-RG PE-HALS/MCFL DS-SI-GR

22. Was Well Cored

NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48.5	560	17 1/2	575 SX C CIRC CMT	0
9 5/8	36	2650	12 1/4	950 SX C CIRC CMT	0
5 1/2	15.5/17	10560	8 3/4	1440 SX H 5858 CBL	0

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8	9770	9737

26. Perforation record (interval, size, and number)

10,224-252
9810-9817

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

10,224-252

CIRP AT 10,200 W/35' CMT

9810-9817

A W/2200 GALS

28. PRODUCTION

Date First Production

08-13-96

Production Method (Flowing, gas lift, pumping - Size and type pump)

FLOWING

Well Status (Prod. or Shut-in)

PROD

Date of Test

09-01-96

Hours Tested

24

Choke Size

18/64

Prod'n For Test Period

35

Oil - Bbl.

35

Gas - MCF

2626

Water - Bbl.

0

Gas - Oil Ratio

75,029

Flow Tubing Press.

1460

Casing Pressure

PKR

Calculated 24-Hour Rate

35

Oil - Bbl.

35

Gas - MCF

2626

Water - Bbl.

0

Oil Gravity - API (Corr.)

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

Test Witnessed By

30. List Attachments

LOGS, DST REPORT,

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Ken W. Gosnell

Printed Name

KEN W. GOSNELL

Title

AGENT

Date

09-16-96

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____	T. Canyon _____
T. Salt _____	T. Strawn _____ 9423
B. Salt _____	T. Atoka _____ 9726
T. Yates _____	T. Miss _____ 10375
T. 7 Rivers _____	T. Devonian _____
T. Queen _____ 1310	T. Silurian _____
T. Grayburg _____	T. Montoya _____
T. San Andres _____ 1998	T. Simpson _____
T. Glorieta _____ 3541	T. McKee _____
T. Paddock _____	T. Ellenburger _____
T. Blinebry _____	T. Gr. Wash _____
T. Tubb _____ 4997	T. Delaware Sand _____
T. Drinkard _____	T. Bone Springs _____
T. Abo _____ 5594	T. _____
T. Wolfcamp _____ 6912	T. _____
T. Penn _____ 8210	T. _____
T. Cisco (Bough C) _____	T. _____

Northeastern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout _____	T. Elbert _____
T. Mancos _____	T. McCracken _____
T. Gallup _____	T. Ignacio Otzte _____
Base Greenhorn _____	T. Granite _____
T. Dakota _____	T. _____
T. Morrison _____	T. _____
T. Todilto _____	T. _____
T. Entrada _____	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permian _____	T. _____
T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 3, from _____ to _____
No. 2, from _____ to _____	No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____	feet _____
No. 2, from _____ to _____	feet _____
No. 3, from _____ to _____	feet _____

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	5594	5594	ANHY & DOLO				
5594	5770	176	SHALE				
5770	6912	1142	DOLO				
6912	9726	2814	LIMESTONE				
9726	9850	124	SD & SH & LIME				
9850	10144	290	LIMESTONE				
10144	10375	231	SD & SH				
10375	10508	133	SHALE				
10508	10560	52	LIMESTONE				

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

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

SEP 25 1996

SF

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator ARCO PERMAIN					Lease or Unit Name DINAH 23 FED. COM						
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-18-96		Well No. 1				
Completion Date 8-13-96		Total Depth 10560		Plug Back TD 10180		Elevation		Unit Ltr. - Sec. - TWP - Rge. M-23-17S-28E			
Csg. Size 5½	Wt. 17	d 4.892	Set At 10560	Perforations: From: 9810 To: 9817			Country EDDY				
Tbg. Size 2-3/8	Wt. 4.7	d 1.995	Set At 9770	Perforations: From: To:			Pool				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 9337			Formation ATOKA				
Producing Thru tbg		Reservoir Temp. °F 177		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection EL PASO			
L 9770	H 9770	Gg .773	% CO ₂ .232	% N ₂ 1.680	% H ₂ S -0-	Prover -0-	Meter Run 4.034	Taps flg.			
FLOW DATA					TUBING DATA			CASING DATA			
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1750		PKR		72 hr
1.	4.034	X	.750	371			760		"		24 hr.
2.											
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1.											
2.		VOLUME FROM TOTAL FLOW METER						600			
3.											
4.											
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 24.0 Mcf/bbl.						
1.					A.P.I. Gravity of Liquid Hydrocarbons 52.9 Deg.						
2.					Specific Gravity Separator Gas .773						
3.					Specific Gravity Flowing Fluid 52.9 XXXXX GMIX=.892						
4.					Critical Pressure 667 P.S.I.A. 663 P.S.I.A.						
5.					Critical Temperature 408 R 447 R						
P _c 1763.2 P _w 3108.9											
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.244$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.244$						
1.											
2.											
3.					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .746$						
4.											
5.											
Absolute Open Flow 746 Mcfd @ 15.025					Angle of Slope θ 45			Slope, n 1.000			
Remarks: WELL MADE 25 BBLS CONDENSATE @ 52.9 API GRAVITY											
Approved By Division				Conducted By: PRO WELL TESTERS				Calculated By: MB			
								Checked By: BM			

COMPANY : ARCO PERMAIN LEASE : DINAH 23 FED COM WELL NO. : 1 Pc = 1763.2 Pc2 = 3108.9

UNIT : M SECTION : 23 TOWNSHIP : 17

L : 9770 H : 9770 L/H : 1 G/GMIX : 0.892 Ft2 = 597.8 Pw = 730.9

WOG2 : 1.68 W2 : 1.68 H2B : DATE : 9/18/96 0.0 ERR

d : 1.995 Fr : 0.018231 GH : 8714.8 RANGE : 28 0.0 ERR

0.0 ERR

VOL 1 : 500 PSIA 1 : 773.2 RESV.TEMP 171.7 Pp2-Pw2= 2499.0 Pw2 = 609.9

VOL 2 : PSIA 2 : ERR ERR

VOL 3 : PSIA 3 : SHUT-IN PR= 1763.2 ERR ERR

VOL 4 : PSIA 4 : ERR ERR

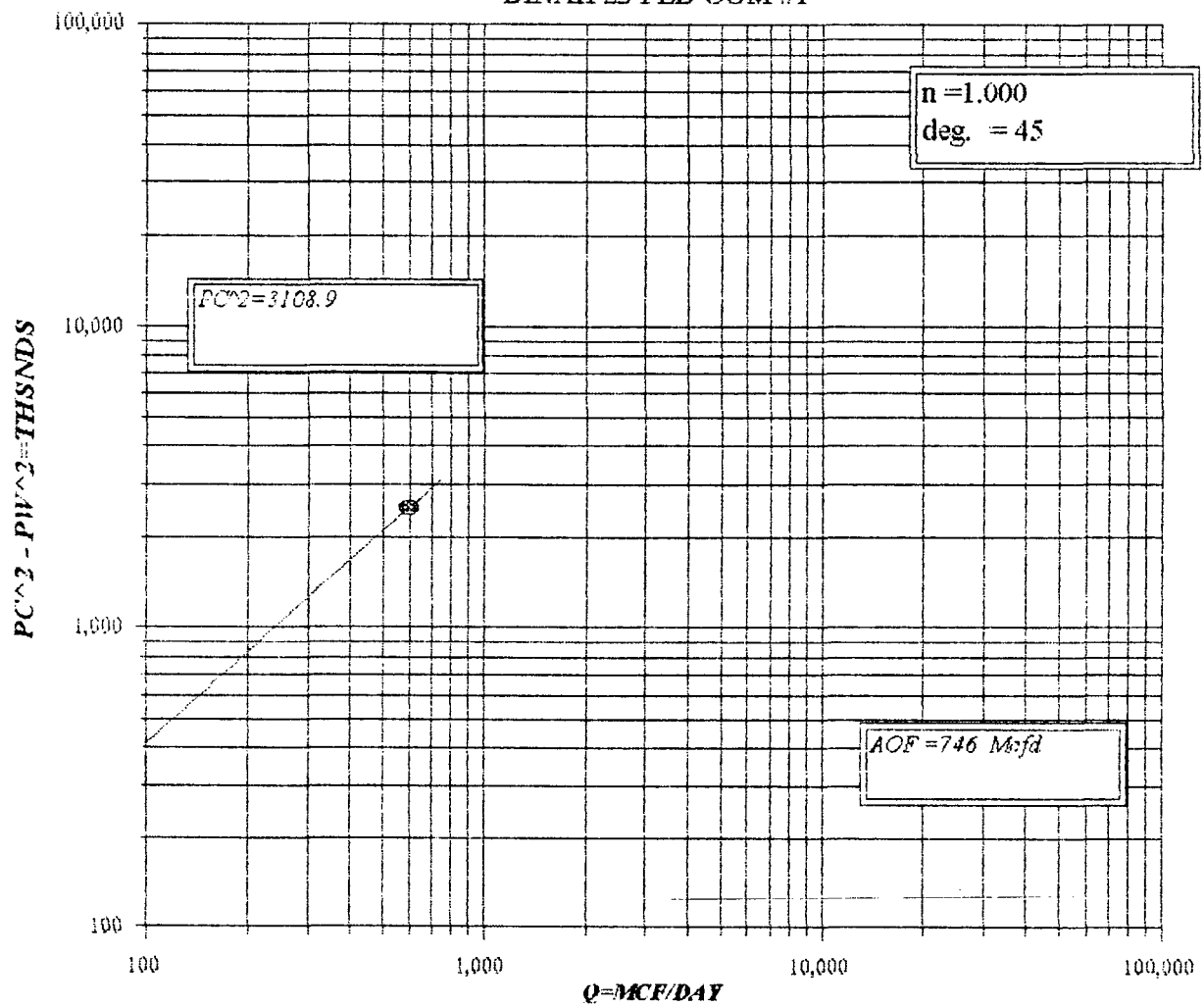
PCR : 663 n = 1.000

TCR : 447

Pc2/(Pc2-Pw2) = 1.244

LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 QM	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	
2 TW	534	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n = 1.244
3 Te	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	ERR
4 T	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	ERR
FR (est)	1.17		0.00		0.00		0.00		ERR
5 Z(est)	0.790	0.749	ERR	ERR	ERR	ERR	ERR	ERR	
6 TI	460.6	436.6	ERR	ERR	ERR	ERR	ERR	ERR	ADF= 0 0.746
7 GH/TI	18.921	19.962	ERR	ERR	ERR	ERR	ERR	ERR	ERR
8 eB	2.033	2.114	ERR	ERR	ERR	ERR	ERR	ERR	ERR
9 I-e-B	0.509	0.527	ERR	ERR	ERR	ERR	ERR	ERR	ERR
10 Ft	773.2	773.2	0.0	0.0	0.0	0.0	0.0	0.0	
11 Pt2 /1000	597.8	597.8	0.0	0.0	0.0	0.0	0.0	0.0	
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	
13 Pc=Fr/TI	8.367	7.989	ERR	ERR	ERR	ERR	ERR	ERR	
14 PcQm	5.04	4.78	ERR	ERR	ERR	ERR	ERR	ERR	
15 L/H(PcQm)	25.4	22.8	ERR	ERR	ERR	ERR	ERR	ERR	
16 Pw	12.69531	12.01743	ERR	ERR	ERR	ERR	ERR	ERR	
17 Pw2	610.7	609.9	ERR	ERR	ERR	ERR	ERR	ERR	
18 Ps2	1241.7	1269.2	ERR	ERR	ERR	ERR	ERR	ERR	
19 Ps	1114.3	1135.4	ERR	ERR	ERR	ERR	ERR	ERR	
20 P	943.7	954.3	ERR	ERR	ERR	ERR	ERR	ERR	
21 Pr	1.42	1.44	ERR	ERR	ERR	ERR	ERR	ERR	
22 Tr	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	
23 Z	0.749	0.747	ERR	ERR	ERR	ERR	ERR	ERR	FORM C122-0

ARCO PERMAIN
DINAH 23 FED COM #1



Fri. - 9-13-96

2400 3.2
1600 10/64

24661 m. day cond

Wildcat Measurement Service
PO Box 1836
Artesia, New Mexico 88211-1836
Office 4505-746-3481
"Quality and Service is our First Concern"

DOS 2.0
Run No. 961208-15
Date Run 08/12/96
Date Sampled 08/12/96

Analysis for: ARCO PERMIAN
Well Name: DINAH "23" FEDERAL
Field: EMPIRE MORROW
Sta. Number:
Purpose: SPOT
Sampling Temp: 80 DEG F
Volume/day: 626 MCF/DAY
Pressure on Cylinder: PSIG

GPANGL. L60
Producer: ARCO PERMIAN
County: EDDY State: NM
Sampled By: OWEN CRAUSBY
Atmos Temp: 82 DEG F
Formation: *Morrow Hoka*
Line Pressure: 950 PSIA

GAS COMPONENT ANALYSIS

	Mol %	GPM
Carbon Dioxide CO2	0.232	
Nitrogen N2	1.680	
Methane C1	76.921	
Ethane C2	9.680	2.575
Propane C3	5.798	1.589
Iso-Butane IC4	0.985	0.320
Nor-Butane NC4	2.121	0.665
Iso-Pentane IC5	0.655	0.238
Nor-Pentane NC5	0.613	0.221
Hexanes Plus C6+	1.315	0.562

Pressure Base: 14.650
Real BTU Dry: 1308
Real BTU Wet: 1286
Real Calc. Specific Gravity: 0.773
Field Specific Gravity: 0.000

Standard Pressure: 14.696
BTU Dry: 1313
BTU Wet: 1290

K Factor: 0.9960
B Value: 1.2747
Avg Mol Weight: 22.3079
Avg Cuft/Gal: 54.6990
26 Lb Product: 1.5828
Methane+ GPM: 19.138
Ethane+ GPM: 6.171
Propane+ GPM: 3.596
Butane+ GPM: 2.007
Pentane+ GPM: 1.021

TOTAL 100.000 6.171

REMARKS:
SAMPLE TAKEN AT: 8:20 AM
SAMPLE IS #1 SAMPLE

Approved by: DON NORMAN

Mon Aug 12 15:31:06 1996

NEW MEXICO G.O.R./G. MIX

NO. OF BBLs PRODUCED = 25.0

API GRAVITY @ 60 DEG. = 52.9

SPECIFIC GRAVITY OF GAS = 0.7730

XX
TOTAL GAS PRODUCED = 600

G.O.R. = 24.000

G.MIX = 0.892

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I

P.O. Box 1980, Hobbs NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30-015-28940-28946

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

DINAH 23 FED COM

8. Well No.

1

9. Pool name or Wildcat

EMPIRE, SOUTH, MORROW

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

ARCO PERMIAN

3. Address of Operator

P.O. BOX 1610, MIDLAND, TX, 79702

4. Well Location

Unit Letter **M** : **1077** Feet From The **SOUTH** Line and **660** Feet From The **WEST** Line

Section **23**

Township **17S**

Range **28E**

NMPM

EDDY County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3590 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☒

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

SPUD 17 1/2" HOLE ON 05-27-96. TD'D AT 560. RIH W/13 3/8 48# CSG TO 560. CMT'D W/575 SX C W/2% CC + 1/4# CS(YLD 1.32). CIRC CMT TO SURF. WOC 18 HRS. EST COMPRESS STRENGTH 2000#. PRESS TEST CSG TO 1000# FOR 30 MIN. DA W/12 1/4 BIT.

RECEIVED

JUN - 4 1996

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

SIGNATURE

Ken W. Gosnell

TITLE AGENT

DATE 06-36-96

TYPE OR PRINT NAME KEN W. GOSNELL

TELEPHONE NO. 915 688-5672

(This space for State Use)

APPROVED BY

Jim W. Geron

TITLE

District Supervisor

DATE

6/6/96

CONDITIONS OF APPROVAL, IF ANY:

District I
PO Box 1960, Hobbs, NM 88241-1960
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator name and Address ARCO PERMIAN P.O. BOX 1610 MIDLAND, TX 79702		² OGRID Number 000990
⁴ Property Code 18890	⁵ Property Name DINAH 23 FED COM	³ API Number 30-015 - 28946
		⁶ Well Number 1

⁷ Surface Location									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	23	17S	28E		1077	SOUTH	660	EAST	EDDY

⁸ Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
⁹ Proposed Pool 1					¹⁰ Proposed Pool 2				
EMPIRE, SOUTH, MORROW					76400				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3590
¹⁶ Multiple NO	¹⁷ Proposed Depth 10800	¹⁸ Formations MORROW	¹⁹ Contractor	²⁰ Spud Date 04-20-96

²¹ Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	54.5	500	525	SURF
12 1/4	8 5/8	24	2600	940	SURF
7 7/8	5 1/2	15.5/17	10800	1200	5000

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

RECEIVED

APR 02 1996

**OIL CON. DIV.
DIST. 2**

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Ken W. Gosnell*

Printed name: **KEN W. GOSNELL**

Title: **AGENT**

Date: **03-28-96**

Phone: **915 688-5672**

OIL CONSERVATION DIVISION

Approved by: *Jim W. Burns*

Title: *District Supervisor*

Approval Date: **4-25-96**

Expiration Date: **4-25-97**

Conditions of Approval:
Attached ☐

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28946	Pool Code 76400	Pool Name Empire, South, Morrow
Property Code	Property Name DINAH 23 FED COM	Well Number 1
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 3590

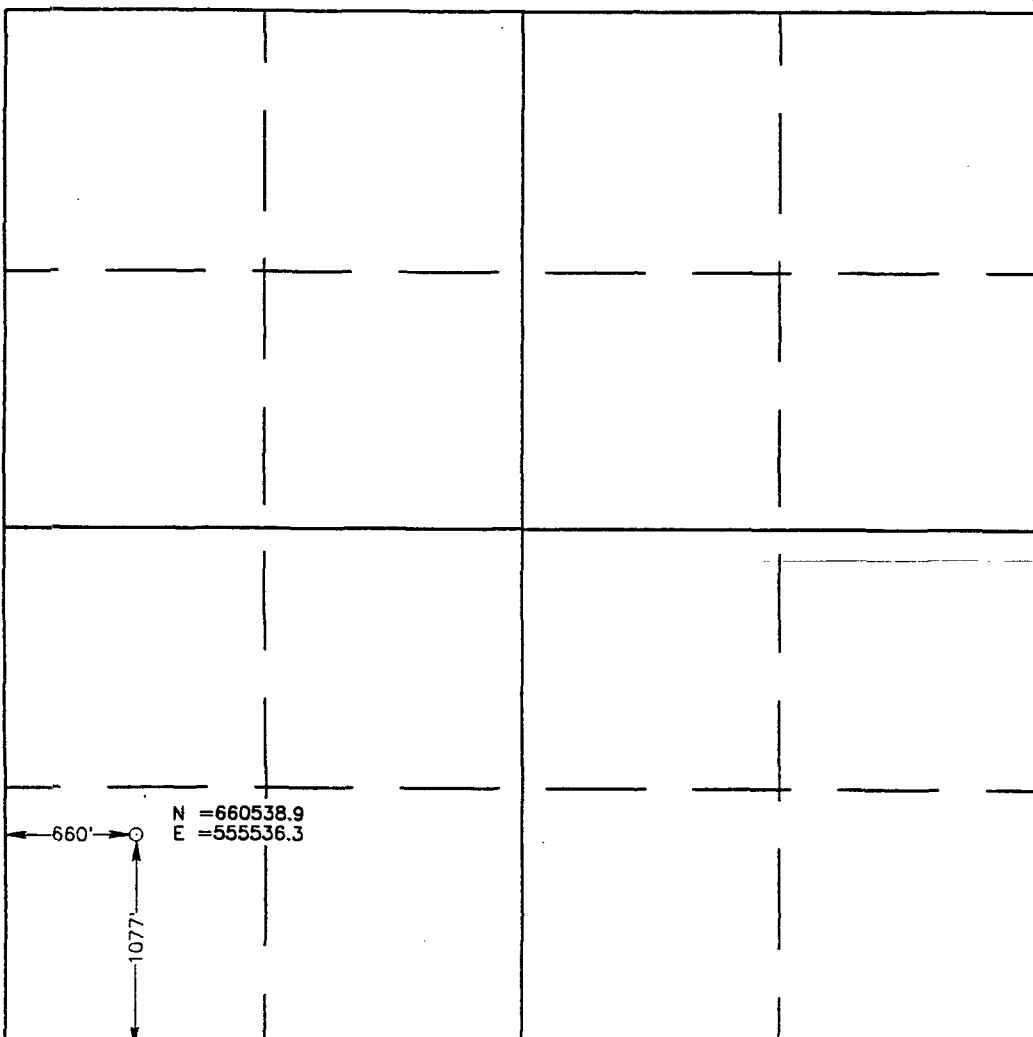
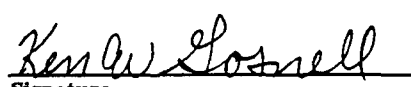
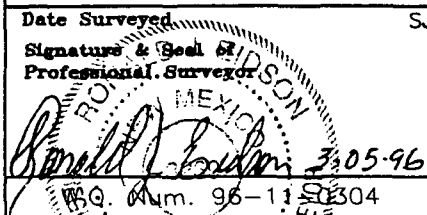
Surface Location

UL or lot No. M	Section 23	Township 17 S	Range 28 E	Lot Idn	Feet from the 1077	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY
---------------------------	----------------------	-------------------------	----------------------	---------	------------------------------	----------------------------------	-----------------------------	-------------------------------	-----------------------

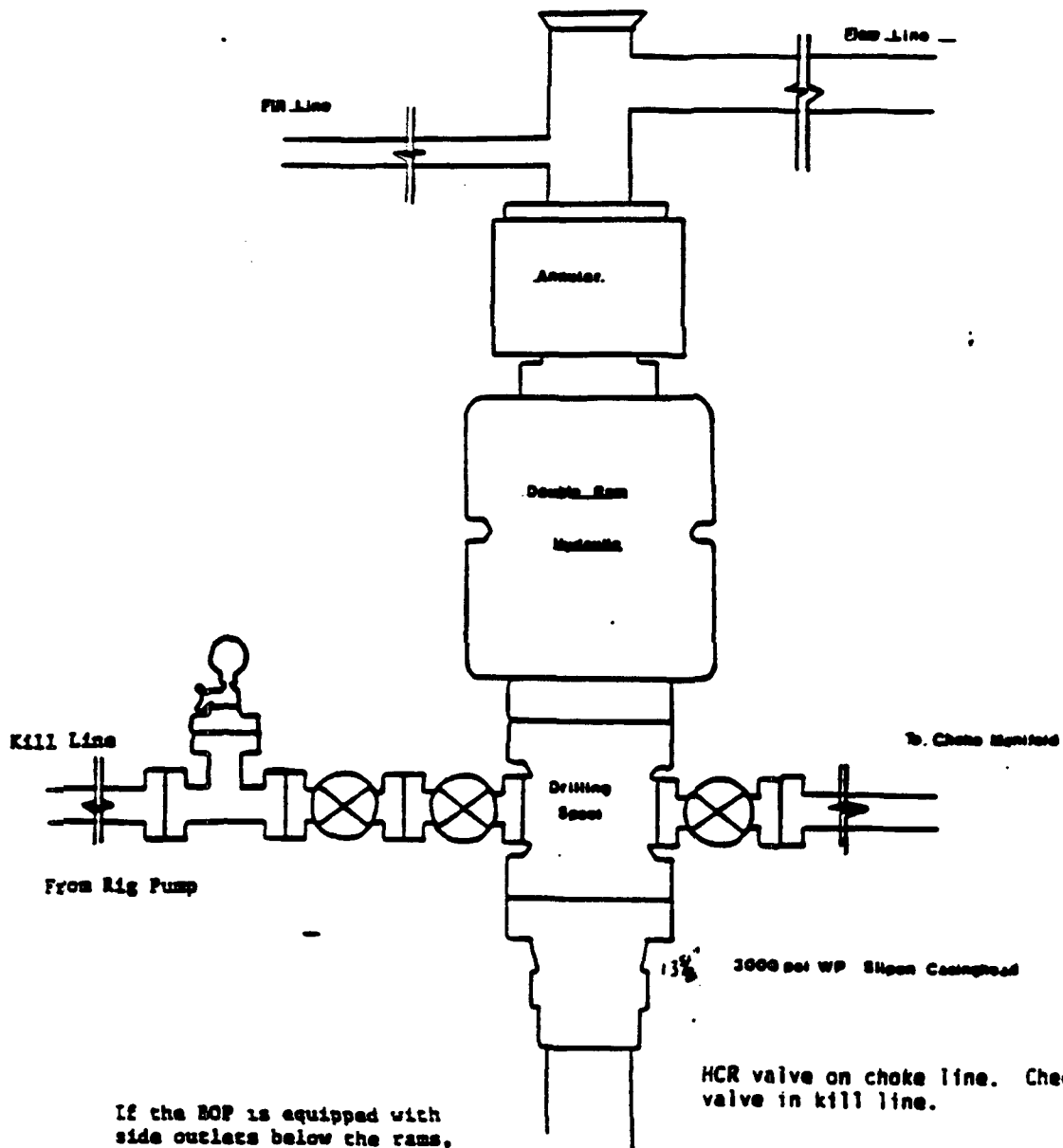
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT 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 Agent Title March 28, 1996 Date
	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 belief. MARCH 1, 1996 Date Surveyed Signature & Seal of Professional Surveyor  Certificate No. JOHN W. 676 RONALD J. EDSON 3239 CARMEDISON 12641

ARCO Oil & Gas
3000 psi WP BOP Stack
SR₂A



If the BOP is equipped with side outlets below the rams, a spool is not required.

WRS COMPLETION REPORT

REISSUES SEC 23 TWP 17S RGE 28E
PI# 30-T-0001 02/21/97 30-015-28946-0000 PAGE 1

NMEX EDDY * 1077FSL 660FEL SEC
STATE COUNTY FOOTAGE SPOT
ARCO PERMIAN D DG
OPERATOR WELL CLASS INIT FIN
1 DINAH '23' FEDERAL COM

WELL NO. LEASE NAME
3604KB 3590GR EMPIRE S
OPER ELEV FIELD/POOL/AREA
API 30-015-28946-0000

LEASE NO. PERMIT OR WELL I.D. NO.
05/27/1996 09/01/1996 ROTARY VERT GAS
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS
10800 MORROW NABORS DRLG USA 356 RIG SUB 13
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 10560 PB 10180 FM/TD MSSP
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

9 MI W LOCO HILLS, NM

WELL IDENTIFICATION/CHANGES

FINAL STATUS CHGD FROM D
FINAL STATUS CHGD FROM TA

CASING/LINER DATA

CSG 13 3/8 @ 560 W/ 575 SACKS
CSG 9 5/8 @ 2650 W/ 950 SACKS
CSG 5 1/2 @ 10560 W/ 1440 SACKS

TUBING DATA

TBG 2 3/8 AT 9770

INITIAL POTENTIAL

IPF 25BCPD 600 MCFD 48/64CK 24HRS
MORROW PERF 9810- 9817
PERF 9810- 9817
ACID 9810- 9817 2200GALS
SITP 1750

48/64CK 600MCFD TP 760 BHT 171F
BH 1763 FPCAOF 746MCFD
GTY 52.9 GOR 240
GAS GTY .773

CONTINUED IC# 300157019496

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Petroleum Information
Corporation

PI-WRS-GGT
Form No 187

REISSUES
PI# 30-T-0001 02/21/97 SEC 23 TWP 17S RGE 28E
30-015-28946-0000 PAGE 2

ARCO PERMIAN
1

DINAH '23' FEDERAL COM

D DG

INITIAL POTENTIAL

P/L CON EL PASO
1ST PT TEST IN 1440 MINS

TYPE	FORMATION	LTH	TOP	DEPTH/SUB	BSE	DEPTH/SUB
LOG	QUEEN		1310	2294		
LOG	SN ANDRS		1998	1606		
LOG	GLORIETA		3541	63		
LOG	TUBB		4997	-1393		
LOG	ABO		5594	-1990		
LOG	WOLFCAMP		6912	-3308		
LOG	PNNSYLVN		8210	-4606		
LOG	STRAWN		9423	-5819		
LOG	ATOKA		9726	-6122		
LOG	MSSP		10375	-6771		

SUBSEA MEASUREMENTS FROM KB

FORMATION TEST DATA

DST 1
NO DETAILS

PRODUCTION TEST DATA

MORROW PERF 10224-10252
PERF 10224-10252
BRPG @10180 10224-10252

LOGS AND SURVEYS /INTERVAL, TYPE/

LOGS	NEUT	DENL	MSFL
------	------	------	------

DRILLING PROGRESS DETAILS

ARCO PERMIAN
BOX 1610
MIDLAND, TX 79702
915-688-5200
05/02 LOC/1996/
05/30 DRLG AHEAD
07/10 10560 TD, WOCT
RIG REL 07/03/96

CONTINUED

REISSUES SEC 23 TWP 17S RGE 28E
PI# 30-T-0001 02/21/97 30-015-28946-0000 PAGE 3

ARCO PERMIAN
1

DINAH '23' FEDERAL COM

D DG

DRILLING PROGRESS DETAILS

02/17 10560 TD, PB 10180
COMP 9/1/96, IPF 600 MCFGPD, CAOF 746,
25 BCPD, GTY 52.9, GAS
GTY .773, GLR 240, SITP
1750, BHSIP 1763
PROD ZONE - MORROW 9810-9817
NO CORES, ONE DST RPTD
02/17 REISSUE TO CORRECT & ADD COMP DATA
REPLACEMENT FOR TICKET ISSUED 1/24/97

WRS COMPLETION REPORT

REISSUES SEC 23 TWP 17S RGE 28E
30-T-0002 10/03/97 30-015-28946-0000 PAGE 1

NMEX EDDY * 1077FSL 660FWL SEC
STATE COUNTY FOOTAGE SPOT
ARCO PERMIAN D DG
OPERATOR WELL CLASS INIT FIN
1 DINAH '23' FEDERAL COM
WELL NO. LEASE NAME
3604KB 3590GR EMPIRE
OPER ELEV FIELD/POOL/AREA
API 30-015-28946-0000
LEASE NO. PERMIT OR WELL I.D. NO.
05/27/1996 09/01/1996 ROTARY VERT GAS
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS
10800 MORROW NABORS DRLG USA 356 RIG SUB 13
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 10560 PB 10180 FM/TD MSSP
DRILLERS T.D. LOG T.D. PLUG BACK TO OLD T.D. FORM T.D.

LOCATION DESCRIPTION

9 MI W LOCO HILLS, NM

WELL IDENTIFICATION/CHANGES

FINAL STATUS CHGD FROM D
FINAL STATUS CHGD FROM TA
FTG CHGD FROM 1077 FSL 660 FEL SEC
FIELD CHGD FROM EMPIRE SOUTH

CASING/LINER DATA

CSG 13 3/8 @ 560 W/ 575 SACKS
CSG 9 5/8 @ 2650 W/ 950 SACKS
CSG 5 1/2 @ 10560 W/ 1440 SACKS

TUBING DATA

TBG 2 3/8 AT 9770

INITIAL POTENTIAL

IPF 25BCPD 600 MCFD 48/64CK 24HRS
ATOKA PERF 9810- 9817
PERF 9810- 9817
ACID 9810- 9817 2200GALS
SITP 1750 BHT 171F
48/64CK 600MCFD TP 760
BH 1763 FPCAOF 746MCFD

CONTINUED IC# 300157019496



REISSUES SEC 23 TWP 17S RGE 28E
30-T-0002 10/03/97 30-015-28946-0000 PAGE 2

ARCO PERMIAN
1 DINAH '23' FEDERAL COM

D DG

INITIAL POTENTIAL

GTY 52.9 GOR 240
GAS GTY .773
P/L CON EL PASO
1ST PT TEST IN 1440 MINS

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	QUEEN		1310 2294	
LOG	SN ANDRS		1998 1606	
LOG	GLORIETA		3541 63	
LOG	TUBB		4997 -1393	
LOG	ABO		5594 -1990	
LOG	WOLFCAMP		6912 -3308	
LOG	PNNSYLVN		8210 -4606	
LOG	STRAWN		9423 -5819	
LOG	ATOKA		9726 -6122	
LOG	MSSP		10375 -6771	

SUBSEA MEASUREMENTS FROM KB

FORMATION TEST DATA

DST 1
NO DETAILS

PRODUCTION TEST DATA

MORROW PERF 10224-10252
PERF 10224-10252
BRPG @10180 10224-10252

LOGS AND SURVEYS /INTERVAL, TYPE/

LOGS NEUT DENL MSFL

DRILLING PROGRESS DETAILS

ARCO PERMIAN
BOX 1610
MIDLAND, TX 79702
915-688-5200

CONTINUED

REISSUES SEC 23 TWP 17S RGE 28E
30-T-0002 10/03/97 30-015-28946-0000 PAGE 3

ARCO PERMIAN
1

DINAH '23' FEDERAL COM

D DG

DRILLING PROGRESS DETAILS

05/02 LOC/1996/
05/30 DRIG AHEAD
07/10 10560 TD, WOCT
02/17 RIG REL 07/03/96
10560 TD, PB 10180
COMP 9/1/96, IPF 600 MCFGPD, CAOF 746,
25 BCPD, GTY 52.9, GAS
GTY .773, GLR 240, SITP
1750, BHSIP 1763
PROD ZONE - ATOKA 9810-9817
NO CORES, ONE DST RPTD
02/17 REISSUE TO CORRECT & ADD COMP DATA
REPLACEMENT FOR TICKET ISSUED 1/24/97
09/30 REISSUE TO CORRECT LOC & FIELD
REPLACEMENT FOR TICKET ISSUED 2/21/97