





2005 DEC 16 AM 10 58

December 15, 2005

New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87504

Attn: Engineering Department

Re: Jackson A #35 Eddy County, New Mexico  
Unit G, 2450' FNL, 2310' FEL –Sec 13, T17S, R30E- SURFACE  
Unit B, 340' FSL, 2312' FEL –SEC 13, T17S, R30E- BOTTOM HOLE

Gentlemen:

Burnett Oil Co., Inc. respectfully request's an exception without notice and hearing to NMOCD Rule 104 for the Jackson A #35 new drill (Cedar Lake Yeso) well. As per the original drilling approval our original spot was for a non standard surface but to penetrate Cedar Lake Yeso at a bottom hole standard location as a horizontal well. Because of various drilling problems, the well ended up being drill vertical to a VTD of 5216' and production casing set and cemented. A window was cut in the production casing from 4719' to 4732' and a 2110' northerly horizontal portion was then drilled. This well flow line will go to our Jackson A tank battery on the lease. **This well is scheduled to begin completion next week. We will need to keep this well open to our storage/sales tanks during the testing phase to avoid down hole problems. The attached plat shows we are the Operator of Record for all the wells on all sides of this well site. All of the interest ownership for this entire lease is exactly the same.** A copy of our approved 3160-3, the archaeological survey for the area and AFE approval letter from the working interest owners are included for your easy reference.

Please contact the undersigned or our Mr. Sterling Randolph if you should need any more information or have any question.

Yours truly,

James H. Arline  
Materials Coordinator

# Ryan Energy Technologies Survey Report



<b>Company:</b> BURNETT OIL COMPANY	<b>Date:</b> 12/9/2005	<b>Time:</b> 15:52:51	<b>Page:</b> 1
<b>Field:</b> Eddy County, NM	<b>Co-ordinate(NE) Reference:</b> Site: Jackson A-35, Grid North		
<b>Site:</b> Jackson A-35	<b>Vertical (TVD) Reference:</b> Est. RKB 3751.0		
<b>Well:</b> Well # A-35	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,359.81Azi)		
<b>Wellpath:</b> Original Hole	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Field:</b> Eddy County, NM Cedar Lake, Yeso USA	<b>Map Zone:</b> New Mexico, Eastern Zone
<b>Map System:</b> US State Plane Coordinate System 1927	<b>Coordinate System:</b> Site Centre
<b>Geo Datum:</b> NAD27 (Clarke 1866)	<b>Geomagnetic Model:</b> igrf2005
<b>Sys Datum:</b> Mean Sea Level	

<b>Site:</b> Jackson A-35 Section 13, T17S, R30E Eddy County, NM			
<b>Site Position:</b>	<b>Northing:</b> 667686.90 ft	<b>Latitude:</b> 32 50 5.594 N	
<b>From:</b> Map	<b>Easting:</b> 625785.80 ft	<b>Longitude:</b> 103 55 25.727 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid	
<b>Ground Level:</b> 3739.00 ft		<b>Grid Convergence:</b> 0.22 deg	

<b>Well:</b> Well # A-35 API# 30-015-	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 667686.90 ft
+E/-W 0.00 ft	<b>Easting:</b> 625785.80 ft
<b>Position Uncertainty:</b> 0.00 ft	
	<b>Latitude:</b> 32 50 5.594 N
	<b>Longitude:</b> 103 55 25.727 W

<b>Wellpath:</b> Original Hole			
<b>Current Datum:</b> Est. RKB	<b>Height:</b> 3751.00 ft	<b>Drilled From:</b> Surface	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 11/10/2005		<b>Above System Datum:</b> Mean Sea Level	
<b>Field Strength:</b> 49548 nT		<b>Declination:</b> 8.45 deg	
<b>Vertical Section:</b> Depth From (TVD)	+N/-S	<b>Mag Dip Angle:</b> 60.83 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	359.81

<b>Survey Program for Definitive Wellpath</b>			
<b>Date:</b> 12/9/2005	<b>Validated:</b> Yes	<b>Version:</b> 2	
<b>Actual From:</b> ft	<b>To:</b> ft	<b>Toolcode:</b>	<b>Tool Name:</b>

Survey	MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	ClsDist	ClsAzi	Comment
	ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg	
	4660.00	0.36	334.20	4659.26	24.34	-13.22	24.38	0.00	27.69	331.50	MWD
	4737.00	3.70	359.00	4736.20	27.04	-13.36	27.09	4.39	30.16	333.70	MWD
	4777.00	17.20	35.30	4775.47	33.19	-9.95	33.22	35.95	34.65	343.31	MWD
	4808.00	26.30	44.80	4804.24	41.82	-2.45	41.83	31.39	41.90	356.65	MWD
	4839.00	35.20	38.50	4830.87	53.72	7.98	53.69	30.50	54.31	8.45	MWD
	4870.00	46.10	33.50	4854.36	70.08	19.74	70.01	36.67	72.80	15.74	MWD
	4903.00	58.60	37.10	4874.48	91.31	34.87	91.19	38.84	97.74	20.90	MWD
	4933.00	72.20	34.60	4886.94	113.39	50.77	113.22	45.96	124.24	24.12	MWD
	4964.00	82.80	26.20	4893.65	139.45	66.01	139.23	43.21	154.29	25.33	MWD
	4995.00	86.80	12.40	4896.47	168.51	76.18	168.26	46.16	184.93	24.33	MWD
	5026.00	92.30	1.50	4896.72	199.23	79.92	198.96	39.37	214.66	21.86	MWD
	5057.00	93.70	355.20	4895.09	230.16	79.03	229.89	20.79	243.35	18.95	MWD
	5088.00	94.30	354.20	4892.93	260.95	76.18	260.69	3.76	271.84	16.27	MWD
	5120.00	94.50	354.10	4890.47	292.69	72.92	292.44	0.70	301.64	13.99	MWD
	5151.00	92.50	355.60	4888.58	323.50	70.15	323.27	8.06	331.02	12.23	MWD
	5182.00	92.30	355.90	4887.28	354.39	67.85	354.16	1.16	360.83	10.84	MWD
	5214.00	92.90	355.60	4885.83	386.27	65.48	386.05	2.10	391.78	9.62	MWD
	5246.00	90.60	357.30	4884.86	418.19	63.50	417.97	8.94	422.98	8.63	MWD
	5277.00	89.80	358.00	4884.75	449.16	62.23	448.95	3.43	453.45	7.89	MWD
	5307.00	87.70	358.40	4885.40	479.14	61.29	478.93	7.13	483.04	7.29	MWD
	5337.00	86.90	358.70	4886.81	509.10	60.53	508.89	2.85	512.68	6.78	MWD
	5368.00	87.10	358.70	4888.44	540.05	59.83	539.84	0.65	543.35	6.32	MWD
	5399.00	87.30	357.70	4889.95	570.99	58.86	570.79	3.29	574.02	5.89	MWD

# Ryan Energy Technologies Survey Report



<b>Company:</b> BURNETT OIL COMPANY	<b>Date:</b> 12/9/2005	<b>Time:</b> 15:52:51	<b>Page:</b> 2
<b>Field:</b> Eddy County, NM	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> Jackson A-35, Grid North	
<b>Site:</b> Jackson A-35	<b>Vertical (TVD) Reference:</b>	<b>Est. RKB</b> 3751.0	
<b>Well:</b> Well # A-35	<b>Section (VS) Reference:</b>	<b>Well (0.00N,0.00E,359.81Azi)</b>	
<b>Wellpath:</b> Original Hole	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db:</b> Sybase

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClsDist ft	ClsAzi deg	Comment
5431.00	90.00	357.30	4890.71	602.95	57.46	602.75	8.53	605.68	5.44	MWD
5462.00	90.40	357.30	4890.60	633.92	56.00	633.72	1.29	636.38	5.05	MWD
5492.00	90.50	357.30	4890.36	663.88	54.59	663.69	0.33	666.12	4.70	MWD
5555.00	91.00	357.30	4889.54	726.81	51.62	726.63	0.79	728.64	4.06	MWD
5586.00	90.80	357.70	4889.05	757.77	50.27	757.60	1.44	759.44	3.80	MWD
5618.00	90.80	357.30	4888.60	789.74	48.87	789.57	1.25	791.25	3.54	MWD
5680.00	90.80	357.30	4887.74	851.66	45.95	851.51	0.00	852.90	3.09	MWD
5743.00	90.70	357.00	4886.91	914.58	42.82	914.43	0.50	915.58	2.68	MWD
5774.00	90.60	357.30	4886.56	945.54	41.28	945.40	1.02	946.44	2.50	MWD
5805.00	90.20	357.70	4886.34	976.51	39.93	976.37	1.82	977.33	2.34	MWD
5837.00	90.30	357.70	4886.21	1008.48	38.64	1008.35	0.31	1009.22	2.19	MWD
5868.00	90.70	358.00	4885.93	1039.46	37.48	1039.33	1.61	1040.14	2.07	MWD
5900.00	90.70	358.40	4885.54	1071.44	36.47	1071.31	1.25	1072.06	1.95	MWD
5931.00	90.60	358.40	4885.19	1102.43	35.61	1102.30	0.32	1103.00	1.85	MWD
5962.00	90.60	358.40	4884.87	1133.41	34.74	1133.29	0.00	1133.95	1.76	MWD
5994.00	90.70	358.40	4884.50	1165.40	33.85	1165.28	0.31	1165.89	1.66	MWD
6025.00	90.60	358.70	4884.15	1196.39	33.07	1196.27	1.02	1196.84	1.58	MWD
6056.00	90.50	359.10	4883.86	1227.38	32.47	1227.27	1.33	1227.81	1.52	MWD
6087.00	90.50	359.40	4883.58	1258.38	32.06	1258.26	0.97	1258.79	1.46	MWD
6119.00	90.60	359.40	4883.28	1290.37	31.73	1290.26	0.31	1290.76	1.41	MWD
6150.00	91.80	358.40	4882.63	1321.36	31.13	1321.25	5.04	1321.73	1.35	MWD
6180.00	92.20	357.70	4881.58	1351.32	30.11	1351.22	2.69	1351.66	1.28	MWD
6211.00	92.10	357.30	4880.42	1382.27	28.76	1382.17	1.33	1382.57	1.19	MWD
6241.00	91.90	357.70	4879.37	1412.23	27.46	1412.13	1.49	1412.49	1.11	MWD
6273.00	91.90	357.00	4878.31	1444.17	25.98	1444.08	2.19	1444.41	1.03	MWD
6304.00	91.70	357.30	4877.34	1475.12	24.44	1475.03	1.16	1475.32	0.95	MWD
6335.00	91.70	357.30	4876.42	1506.07	22.98	1505.99	0.00	1506.25	0.87	MWD
6366.00	91.40	357.00	4875.58	1537.02	21.44	1536.94	1.37	1537.17	0.80	MWD
6398.00	91.40	357.00	4874.80	1568.97	19.76	1568.89	0.00	1569.09	0.72	MWD
6429.00	91.40	357.30	4874.04	1599.92	18.22	1599.85	0.97	1600.03	0.65	MWD
6460.00	91.60	357.00	4873.23	1630.87	16.68	1630.81	1.16	1630.96	0.59	MWD
6492.00	91.20	357.30	4872.45	1662.82	15.09	1662.76	1.56	1662.89	0.52	MWD
6523.00	91.20	357.70	4871.80	1693.79	13.74	1693.73	1.29	1693.84	0.46	MWD
6554.00	91.00	358.00	4871.20	1724.76	12.57	1724.71	1.16	1724.81	0.42	MWD
6586.00	91.00	357.70	4870.64	1756.73	11.37	1756.68	0.94	1756.77	0.37	MWD
6617.00	90.80	357.70	4870.16	1787.70	10.13	1787.66	0.65	1787.73	0.32	MWD
6648.00	90.70	357.70	4869.75	1818.68	8.89	1818.64	0.32	1818.70	0.28	MWD
6678.00	90.40	357.70	4869.46	1848.65	7.68	1848.61	1.00	1848.67	0.24	MWD
6709.00	90.10	357.70	4869.33	1879.62	6.44	1879.59	0.97	1879.64	0.20	MWD
6740.00	90.20	358.00	4869.25	1910.60	5.28	1910.57	1.02	1910.61	0.16	MWD
6771.00	90.20	358.00	4869.14	1941.58	4.19	1941.56	0.00	1941.59	0.12	MWD
6802.00	90.20	358.40	4869.03	1972.57	3.22	1972.55	1.29	1972.57	0.09	MWD
6833.00	90.30	358.00	4868.89	2003.55	2.25	2003.53	1.33	2003.55	0.06	MWD
6865.00	90.10	358.00	4868.78	2035.53	1.13	2035.52	0.62	2035.53	0.03	MWD
6895.00	90.00	357.00	4868.76	2065.50	-0.18	2065.49	3.35	2065.50	360.00	MWD
6940.00	90.00	357.00	4868.76	2110.44	-2.53	2110.44	0.00	2110.44	359.93	MWD



# DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 • Artesia, NM 88211-0160 • Office (505) 748-8704 • Fax (505) 748-8719

December 13, 2005

Burnett Oil Co, Inc  
801 Cherry St, Suite 1500  
Ft Worth, TX 76102

Re: Jackson "A" #35  
Section 13, T-17-S, R-30-E  
Eddy County, New Mexico

The following is a Deviation Survey on the above referenced well in Eddy County, New Mexico:

152' - 1°	1902' - 1 1/2°	3666' - 1 1/2°
417' - 1 1/2°	2399' - 1 1/4°	4157' - 1/2°
916' - 1/2°	2895' - 2°	4653' - 1 1/2°
1410' - 1 3/4°	3173' - 3/4°	5178' - 1 1/2°

Sincerely,

Gary W Chappell  
Contracts Manager

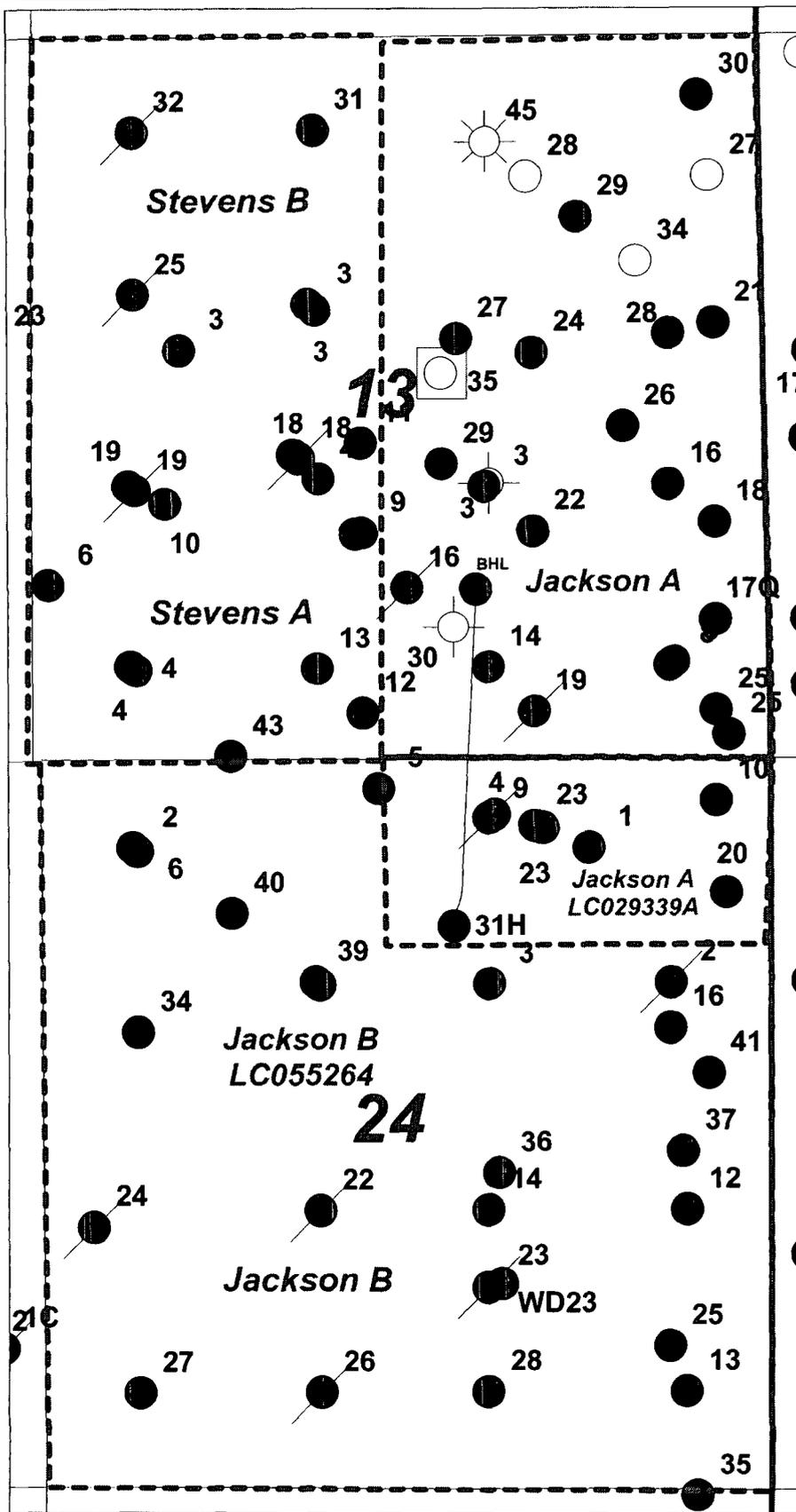
STATE OF NEW MEXICO)  
COUNTY OF CHAVES )

The foregoing was acknowledged before me this 13th day of December, 2005 by Gary W Chappell.

MY COMMISSION EXPIRES

June 19<sup>th</sup>, 2007

Virginia L Long  
NOTARY PUBLIC



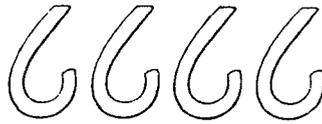
*Application for Non-Standard  
Location Approval*

**Burnett Oil Co., Inc.**

WELLS DRILLED TO ALL DEPTHS  
EDDY COUNTY, NEW MEXICO

Scale: 1" = 1240 Feet

Date:  
15 December, 2005



December 15, 2005

**GROSS WORKING INTERESTS**  
Yeso formation  
Eddy Co., NM  
T17S-R30E NMPM

WORKING INTEREST OWNER	JACKSON A Federal Lease LC-029339A	STEVENS B Federal Lease LC-055958	STEVENS B Federal Lease LC-030570A
YATES DRLG	0.0377610	0.0377610	0.0377610
ABO	0.0377610	0.0377610	0.0377610
MYCO	0.0377610	0.0377610	0.0377610
BURNETT	0.8867170	0.8867170	0.8867170
<i>TOTAL</i>	<i>1.0000000</i>	<i>1.0000000</i>	<i>1.0000000</i>

*FROM LAND DEPT*

*J. H. Arthur*

**OPERATOR'S COPY**

Form 3160-3  
(November 1983)  
(formerly 9-331C)

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
 DRILL                       DEEPEN                       PLUG BACK

b. TYPE OF WELL  
 OIL WELL                       GAS WELL                       OTHER   
 SINGLE ZONE                       MULTIPLE ZONE

2. NAME OF OPERATOR  
 BURNETT OIL CO., INC                      (817/332-5108)

3. ADDRESS OF OPERATOR  
 801 CHERRY STREET, SUITE 1500, FORT WORTH, TEXAS 76102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface    UNIT G, 2450' FNL, 2310' FEL

At proposed prod. zone    UNIT B, 330' FNL, 2310' FEL  
**SUBJECT TO LIKE APPROVAL BY STATE**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 APPROXIMATELY 6 MILES EAST OF LOCO HILLS, NEW MEXICO

16. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)                      330'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.                      660'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 3739' GR

5. LEASE DESIGNATION AND SERIAL NO.  
 NMLC029339A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 JACKSON A

9. WELL NO.  
 #35 API# 30-015-

10. FIELD AND POOL, OR WILDCAT  
 CEDAR LAKE YESO

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SEC 13, T17S, R30E

12. COUNTY OR PARISH    13. STATE  
 EDDY                      NM

16. NO. OF ACRES IN LEASE                      560

19. PROPOSED DEPTH                      7700'MD

20. ROTARY OR CABLE TOOLS  
 ROTARY

22. APPROX. DATE WORK WILL START\*  
 September 15, 2005

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 7/8"	9 5/8"	32.30#	415'	+/-400 Sks(Circ. to Surface)
8 3/4"	7"	23#	7700'MD	+/-1500 Sks in 2 stages

**WITNESS**

(If water flows are encountered cementing program may vary.)

A 14 7/8" hole will be drilled to Rustler Anhydrite. We will set 9 5/8" surface casing @ this depth & cement to surface. After an 18 hour cement wait, casing & BOP will be tested before drill out of the shoe. Will drill an 8 3/4" hole to approx. 7700' MD and set & cement approx 7700' of 7" 23# production casing to effectively test the Cedar Lake Yeso interval. We will perforate and treat productive intervals as recommended by our service company. The penetration point is planned to be @ 2310' FNL, 2310' FEL. The surface location is 50' from the lease line, but the producing interval downhole will be 330' from the West lease

**APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED**

Roswell Controlled Water Basin

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Stefan Lundberg* TITLE PETROLEUM ENGINEER DATE July 18, 2005

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY *Laura J. Lara* TITLE Acting FIELD MANAGER DATE 9/7/05

CONDITIONS OF APPROVAL, IF ANY:

**APPROVAL FOR 1 YEAR**

\*See Instructions On Reverse Side

**OIL CONSERVATION DIVISION**  
 1220 SOUTH ST. FRANCIS DR.  
 Santa Fe, New Mexico 87505

DISTRICT I  
 1301 W. FRENCH DR., BOBBS, NM 86240

DISTRICT II  
 1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV  
 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

AMENDED REPORT

API Number <b>30-015</b>	Pool Code <b>96831</b>	Pool Name <b>Cedar Lake Yeso</b>
Property Code <b>020767</b>	Property Name <b>JACKSON A</b>	Well Number <b>35</b>
OGRID No. <b>003080</b>	Operator Name <b>BURNETT OIL COMPANY</b>	Elevation <b>3739'</b>

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	13	17-S	30-E		2450	NORTH	2310	EAST	EDDY

**Bottom Hole Location If Different From Surface**

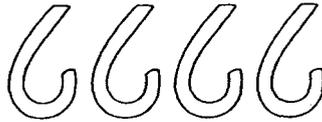
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	13	17-S	30-E		330	NORTH	2310	EAST	EDDY

Dedicated Acres	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**

<p><b>GEODETIC COORDINATES</b>                  NAD 27 NME                  BOTTOM HOLE                  Y=669806.3 N                  X=625778.7 E</p> <p><b>GEODETIC COORDINATES</b>                  NAD 27 NME                  SURFACE LOC.                  Y=667686.9 N                  X=625778.8 E</p> <p>LAT.=32°50'05.59" N                  LONG.=103°55'25.73" W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Sterling Randolph</i>                  Signature</p> <p><b>STERLING RANDOLPH</b>                  Printed Name</p> <p><b>PETROLEUM ENGINEER</b>                  Title</p> <p><b>July 18, 2005</b>                  Date</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p><b>GARY EIDSON</b>                  Date Surveyed 12641 DEL                  Signature &amp; Seal of Professional Surveyor</p> <p><i>Gary Eidson</i>                  Date 7/6/05</p> <p>05.11.0970</p> <p>Certificate No. <b>GARY EIDSON</b> 12641</p>
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*Standard 640-acre Section*



July 18, 2005

Yates Drilling Company  
105 South Fourth Street  
Artesia, New Mexico 88210  
Attn: Dr. Dave Boneau

RECEIVED  
RECEIVED  
JUL 22 2005  
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MAIL ROOM  
YATES DRILLING

Re: Jackson A #35  
Unit G, 2450' FNL, 2310' FEL C = 002  
SEC.13, T17S, R30E- Eddy County, New Mexico

Dear Dr. Boneau:

We propose to drill the referenced new well to test the Cedar Lake, Yeso. The location selected is a standard forty (40) acre tract.

We request your approval on behalf of Yates Drilling, Abo Petroleum, Myco Industries and Yates Petroleum to complete this work. Please signify your approval by signing and returning a copy of this letter and the enclosed AFE and this letter as soon as possible. A copy of the unapproved APD is enclosed for you file.

Please contact our Mr. Sterling Randolph or the undersigned if you need additional information.

Yours truly,

*James H. Arline*  
James H. Arline  
Materials Coordinator

X Approve new well

By: Dave Boneau Date: \_\_\_\_\_  
ENGINEERING MANAGER  
DATE 7-22-05

Title: Dave Boneau, Engineering Manager



**16. Project Data:**

**a. Records Search:** Date(s) of BLM File Review: August 30, 2005 Name of Reviewer(s): Justin Rein  
Date(s) of ARMS Data Review: August 30, 2005 Name of Reviewer(s): Justin Rein

**Findings (see Field Office requirements to determine area to be reviewed during records search):** Three previously recorded sites (LA 101466, LA 122795, and LA 148250) were found within 0.25 miles of the project area. None of these sites will be impacted by the current undertaking.

**b. Description of Undertaking:** On August 30, 2005, Justin Rein, with Boone Archaeological Services, LLC conducted a pedestrian cultural resource survey for the proposed Jackson "A" No. 35 well pad and associated flow line. James H. Arline, with Burnett Oil Co., Inc., requested the survey and provided plats. The project is located in Township 17 South, Range 30 East, Sections 13 and 24. The well is centered 2,450 feet from the north line and 2,310 feet from the east line of Section 13. Access will be afforded via an existing lease road along the eastern margin of the project. The proposed flow line begins at the northeast corner of the well location and travels 3,692 ft south and east to an existing tank battery. The entirety of the flow line follows the edge of an existing lease road. The well will impact an area 400 ft by 400 ft, yet a 600 ft by 600 ft block was surveyed to ensure the protection of cultural resources. The proposed flow line is within the limits of a previous cultural resource survey, BLM project No. 05-766. According to James Smith, Archaeologist with the BLM-CFO (personal conversation, August 30, 2005), no new survey was required for this portion of the proposed project. In all, a total of 8.26 acres was surveyed, entirely on Federal property owned and administered by the Bureau of Land Management - Carlsbad Field Office (BLM-CFO).

**c. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):** The project area is located three miles northeast of Loco Hills, New Mexico. The elevation averages from 3,735 ft above mean sea level. The project is situated among an overall flat plain of undulating dunes which trends downhill towards the southwest at a grade of just over one percent. Local soils are of the Kermit-Berino association as defined by the Soil Conservation Service of the U.S. Department of Agriculture and consist of light brown to reddish sandy soils which have been wind-worked into low coppice dunes up to 2 m in height. Local vegetation is typical of Chihuahuan Desert scrub and includes shin oak, mesquite, yucca, snakeweed, sage, various grasses, cacti, and low forbes. Due to the vegetative ground cover, visibility averaged 85 percent at the time of survey. A lease road bisects the project area in a roughly north to south direction along the eastern portion of the well survey area. Pipelines, both buried and surface, criss-cross the area and parallel the lease road. The proposed flow line follows a similar line along the edge of the existing caliche-capped lease road. The project is otherwise undeveloped and susceptible to cattle grazing and natural aeolian and alluvial processes.

Meteorological data was obtained for the nearby town of Maljamar, New Mexico from the Western Regional Climate Center (WRCC) online database. From 1942 to 2000, Maljamar received an average annual precipitation of 14.37 inches. During the same time, Maljamar had an average high temperature of 76.4 degrees Fahrenheit and an average low temperature of 44.7 degrees Fahrenheit. January was the coldest month averaging 56.1 degrees Fahrenheit, while July was the warmest on average at 94.3 degrees Fahrenheit.

**d. Field Methods (transect intervals; crew size; time in field; etc.):** A crew of one spent 2.5 hours surveying the project area. A 15 m transect interval was used.

**e. Artifacts Collected?:** None

**17. Cultural Resource Findings:** No cultural materials were encountered.

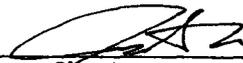
**a. Location/Identification of Each Resource:** N/A

**b. Evaluation of Significance of Each Resource:** N/A

**18. Management Summary (Recommendations):** No cultural materials were encountered during the survey for the proposed Jackson "A" No. 35 well pad and associated flow line. As such, archaeological clearance is recommended for the project as currently staked. If any cultural materials are encountered during construction, work at that location should cease and archaeologists with the BLM-CFO should be notified immediately.

**19.**  
I certify the information provided above is correct and accurate and meets all applicable BLM standards.

Responsible Archaeologist

  
Signature

8.31.05  
Date

# Survey for the Jackson A No. 35 Well Pad and Associated Flow Line

