

JAMES BRUCE
ATTORNEY AT LAW

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April 7, 2000

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

Re: Request to Amend Administrative Order NSL-4417

Manzano Oil Corporation
Cayuma Well No. 1-A
Lots 12 and 13 of irregular Section 1, Township 16 South,
Range 36 East, N.M.P.M., Lea County, New Mexico

Dear Mr. Stogner:

Enclosed is information on the completion of the above well.

Very truly yours,



James Bruce

Attorney for Manzano Oil Corporation

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

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-10
Revised March 25, 199

Submit to Appropriate District Office
3 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Manzano Oil Corporation P.O. Box 2107 Roswell, NM 88202-2107		OGRID Number 013954
API Number 30-0 25-34480		Reason for Filing Code Reentry
Property Code 25248	Pool Name NE Lovington Penn	Pool Code
	Property Name Cayuma	Well Number 1

II. Surface Location

U/L or lot no.	Section	Township	Range	Lot 34n	Feet from the	North/South Line	Feet from the	East/West Line	County
Lot 13	1	16S	36E		3580	South	990	West	Lea

Bottom Hole Location

U/L or lot no.	Section	Township	Range	Lot 34n	Feet from the	North/South line	Feet from the	East/West line	County
Lot 13	1	16S	36E		3580	South	990	West	Lea
Law Code P	Producing Method Code F	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	ONG	POD U/LSTR Location and Description
138648	Amoco Pipeline Incorporated 502 N. West Avenue Levelland, TX 79336		0	Sec 1, T16S, R36E
024650	Dynegy Midstream Services #6 Desta Dr., Suite 3300 Midland, TX 79705		6	

IV. Produced Water

POD	POD U/LSTR Location and Description

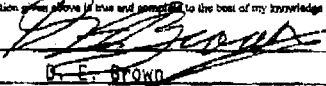
V. Well Completion Data

Spud Date	Ready Date	TD	PBTD	Perforations	THAC, MC
1/20/00	3/29/00	11,770'	11,703'	11,631-678'	
Stake Size	Casing & Tubing Size	Depth Set	Radio Comment		
17-1/2"	13-3/8"	462'	460 C1 C		
11"	8-5/8"	4348'	1200 C1 C		
7-7/8"	5-1/2"	11770'	220 Super C		
	2-7/8"	11555'			

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Test Pressure	Cap. Pressure
3/24/00		3/29/00	24	200	420
Choke Size	Oil	Water	Gas	AOF	Test Method
24/64"	120	0	144		F

I hereby certify that the data of the Oil Conservation Division have been compiled with and that the information given above is true and correct to the best of my knowledge and belief.

Signature: 
Printed name: G. E. Brown
Title: VP Engineering
Date: 4/4/00 Phone: (505) 623-1996

OIL CONSERVATION DIVISION

Approved by: _____
Title: _____
Approval Date: _____

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

Previous Operator Signature	Printed Name	Title	Date

Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
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 and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-105
Revised March 25, 1999

WELL API NO.
30-025-34480

5. Indicate Type of Lease:
STATE ☐ FEE ☒

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 Reentry ☐

7. Lease Name or Unit Agreement Name

Cayuma

2. Name of Operator
Manzano Oil Corporation

8. Well No

1

3. Address of Operator
P.O. Box 2107, Roswell, NM 88202-2107

9. Pool name or Wildcat

NE Lovington Penn

4. Well Location

Unit Letter Lot 13 3580 Feet From The South Line and 990 Feet From The West Line
Section 1 Township 16 South Range 36 East NMPM Lea County

10. Date Spudded 1/20/00	11. Date T.D. Reached 2/15/00	12. Date Compl. (Ready to Prod.) 3/29/00	13. Elevations (DF& RKB, RT, GR, etc.) 3894' KB	14. Elev. Casinghead
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15. Total Depth 11,770'	16. Plug Back T.D. 11,703'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools X	Cable Tools
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19. Producing Interval(s), of this completion - Top, Bottom, Name
11,631-11,678' Strawn

20. Was Directional Survey Made
Yes

21. Type Electric and Other Logs Run
CNL-GR; AIT-GR

22. Was Well Cored
No

23. 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#	462'	17-1/2"	460 C1 C	None
8-5/8"	32#	4348'	11"	1200 C1 C	None
5-1/2"	17#	11770'	7-7/8"	220 Super C	None

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	BACKS CEMENT	SIZE	DEPTH SET	PACKER SET
				2-7/8"	11,555'	11,555'

26. Perforation record (interval, size, and number)
11,631 - 11,678' = 14' = 22 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL
11,631-678'
AMOUNT AND KIND MATERIAL USED
Acidized w/23k gal 20% NEFF

28. PRODUCTION

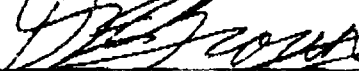
Date First Production 3/24/00		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing			Well Status (Prod. or Shut-in) Producing	
Date of Test 3/29/00	Hours Tested 24	Choke Size 24/64"	Prod'n For Test Period	Oil - Bbl 120	Gas - MCF 144	Water - Bbl 0
Flow Tubing Press. 200	Casing Pressure 420	Calculated 24-Hour Rate	Oil - Bbl 120	Gas - MCF 144	Water - Bbl 0	Gas - Oil Ratio 1200
						Oil Gravity - API - (Corr.) 45°

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

Test Witnessed By
Carroll Bellah

30. List Attachments
CNL-GR; AIT-GR

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

Signature  Printed Name D. E. Brown Title VP Engineering Date 4/4/00

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 11618
B. Salt	T. Atoka
T. Yates	T. Miss
T. 7 Rivers	T. Devonian
T. Queen	T. Silurian
T. Grayburg	T. Montoya
T. San Andres	T. Simpson
T. Glorieta	T. McKee
T. Paddock	T. Ellenburger
T. Blinberry	T. Gr. Wash
T. Tubb	T. Delaware Sand
T. Drinkard	T. Bone Springs
T. Abo	T.
T. Wolfcamp 9752	T.
T. Penn	T.
T. Cisco (Bough C)	T.

Northwestern 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 Otzie
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. 2, from to
 No. 3, 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	9200	9200	On file as Concho Resources				
			Cayuma #1				
9200	9752	552	Dolomite, Limestone, Shale				
9752	11618	1866	Shale, Limestone, Chert				
11618	TD	158	Limestone				

Manzano Oil Company

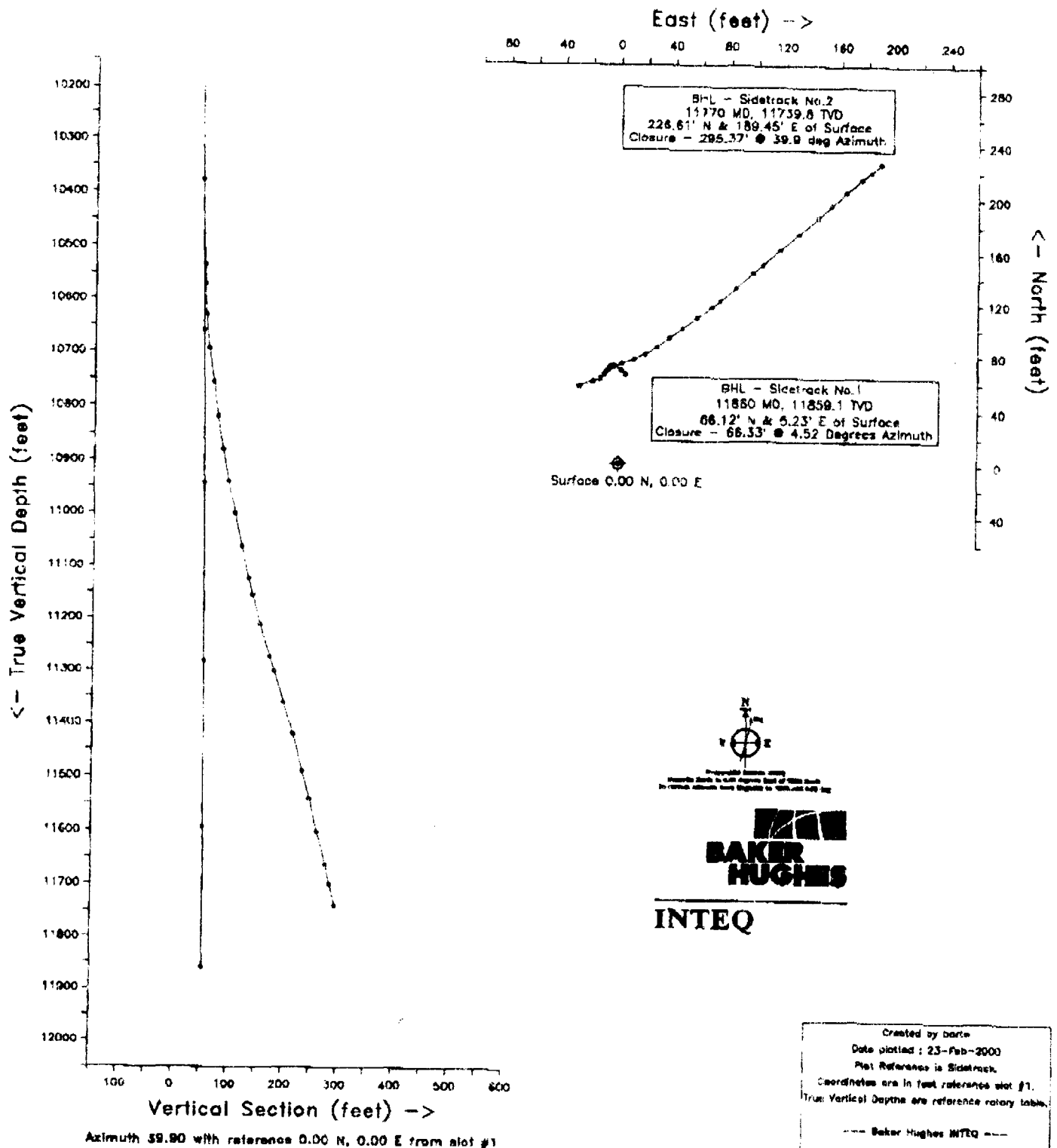
Structure : Cayuma 1A

Slot : slot #1

Field : UNKNOWN

Location : LEA COUNTY, NEW MEXICO

516



Manzano Oil Company
Cayuma 1A

slot #1
UNKNOWN
LEA COUNTY, NEW MEXICO

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

by
Baker Hughes INTEQ

Your ref : Sidetrack
Our ref : svy1347
License :

Date printed : 23-Feb-2000
Date created : 27-Jan-2000
Last revised : 23-Feb-2000

Field is centred on n33 30 0.000,w103 30 0
Structure is centred on n33 30 0.000,w103 30 0

Slot location is n33 30 0.000,w103 30 0.000
Slot Grid coordinates are N 910447.292, E 754038.883
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

Manzano Oil Company
Cayuma 1A, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Sidetrack
Last revised : 21-Feb-2000

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
9200.00	0.93	219.95	9199.50	57.45 N	0.00	63.66
9351.00	1.75	60.00	9350.48	57.66 N	1.75	63.50
9704.00	1.50	80.00	9703.34	61.16 N	0.17	64.09
10038.00	0.75	40.00	10037.28	63.59 N	0.31	64.70
10378.00	0.75	49.00	10377.25	66.76 N	0.03	66.79
10661.00	0.50	29.00	10660.23	69.05 N	0.12	68.39
10944.00	0.75	34.00	10943.22	71.67 N	0.09	70.40
11282.00	1.00	119.00	11281.19	72.07 N	0.35	69.64
11595.00	1.00	129.00	11594.14	69.03 N	0.06	65.39
11860.00	1.00	129.00	11859.10	66.12 N	0.00	61.54

MANZANO OIL CORP

505--625--2628

04/05/2003 13:41

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 66.33 on azimuth 4.52 degrees from wellhead.
Vertical section is from wellhead on azimuth 342.62 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Manzano Oil Company
Cayuma 1A

slot #1
UNKNOWN
LEA COUNTY, NEW MEXICO

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : Sidetrack 2
Our ref : svy1354
License :

Date printed : 23-Feb-2000
Date created : 9-Feb-2000
Last revised : 23-Feb-2000

Field is centred on n33 30 0.000,w103 30 0
Structure is centred on n33 30 0.000,w103 30 0

Slot location is n33 30 0.000,w103 30 0.000
Slot Grid coordinates are N 910447.292, E 754038.883
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

Manzano Oil Company
Cayuma 1A, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Sidetrack 2
Last revised : 23-Feb-2000

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
9200.00	0.93	219.95	9199.50	57.45 N 29.57 W	0.00	2.87
9351.00	1.75	60.00	9350.48	57.66 N 28.36 W	1.75	4.02
9704.00	1.50	80.00	9703.34	61.16 N 19.14 W	0.17	13.76
10038.00	0.75	40.00	10037.28	63.59 N 13.43 W	0.31	19.93
10378.00	0.75	49.00	10377.25	66.76 N 10.32 W	0.03	24.20
10536.00	1.80	44.50	10535.21	69.21 N 7.80 W	0.67	27.60
10571.00	1.90	46.80	10570.19	70.00 N 6.99 W	0.36	28.69
10632.00	4.30	69.80	10631.10	71.48 N 4.11 W	4.36	31.93
10696.00	7.70	70.70	10694.74	73.73 N 2.19 E	5.31	38.52
10759.00	8.70	69.20	10757.09	76.81 N 10.63 E	1.62	47.37
10821.00	9.00	60.60	10818.36	80.86 N 19.24 E	2.19	56.85
10883.00	10.20	53.20	10879.49	86.53 N 27.86 E	2.77	67.15
10946.00	11.00	52.10	10941.42	93.56 N 37.07 E	1.31	78.64
11007.00	11.60	52.70	11001.23	100.85 N 46.54 E	1.00	90.48
11071.00	12.20	52.30	11063.86	108.89 N 57.01 E	0.95	103.56
11132.00	13.40	51.30	11123.34	117.25 N 67.62 E	2.00	116.93
11164.00	13.70	49.50	11154.45	122.03 N 73.40 E	1.62	124.31
11224.00	15.70	44.50	11212.49	132.43 N 84.49 E	3.94	139.11
11286.00	17.20	46.50	11271.95	144.73 N 97.02 E	2.59	156.09
11317.00	16.80	48.30	11301.59	150.86 N 103.69 E	2.13	164.93
11378.00	16.20	49.70	11360.08	162.23 N 116.77 E	1.18	181.92
11441.00	15.70	48.10	11420.66	173.61 N 129.81 E	1.06	198.89
11513.00	15.00	47.20	11490.09	186.45 N 143.90 E	1.03	217.50
11566.00	13.90	46.60	11541.41	195.48 N 153.56 E	2.09	230.37
11629.00	13.20	49.10	11602.66	205.39 N 164.49 E	1.45	244.78

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 295.37 on azimuth 39.90 degrees from wellhead.

Vertical section is from wellhead on azimuth 60.22 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

Manzano Oil Company
Cayuna 1A, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Sidetrack 2
Last revised : 23-Feb-2000

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
11693.00	13.40	48.80	11664.94	215.06 N 175.60 E	0.33	259.22
11730.00	13.60	50.60	11700.92	220.64 N 182.18 E	1.26	267.71
11770.00	13.60	50.60	11739.80	226.61 N 189.45 E	0.00	276.98

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 295.37 on azimuth 39.90 degrees from wellhead.
Vertical section is from wellhead on azimuth 60.22 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ