

12/17/07	SUSPENSE	W Jones	ENGINEER	12/17/07	SWD	PKVR0735/45946
DATE IN				LOGGED IN	TYPE	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

[NSL-Non-Standard Location] **[NSP-Non-Standard Proration Unit]** **[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 - Simultaneous Dedication
☐ NSL ☐ NSP ☐ 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

[D] Other: Specify _____

[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] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Brian Collins

Print or Type Name

Signature

Engineer

Title

12/12/07

Date

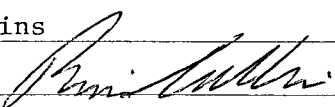
engineering@marbob.com

e-mail Address

RECEIVED
 2007 DEC 17 AM 11:41

Copies of registered
 and copy of affidavit
 of publication will be
 sent to
 OCD as soon
 as we receive
 them.

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: MARBOB ENERGY CORPORATION
ADDRESS: P O BOX 227, ARTESIA, NM 88211-0227
CONTACT PARTY: Brian Collins PHONE: 505-748-3303
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Brian Collins TITLE: Engineer
SIGNATURE:  DATE: 12 Dec 07
E-MAIL ADDRESS: engineering@marbob.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

Application for Authorization to Inject
Double Trouble SWD #1
Unit C, Section 3-T21S-R25E (Bottom Hole)

Marbob Energy proposes to convert the captioned well to SWD purposes. This well is a directional well. See comments on attached Injection Well Data Sheet.

- V. Map is attached.
- VI. Wellbore schematics are attached for wells penetrating the proposed injection zone within, and just outside of, the ½ mile radius area of review.
- VII.
 - 1. Proposed average daily rate = 5000 BWPD
Proposed maximum daily rate = 20,000 BWPD
 - 2. Proposed maximum injection pressure = 1584 psi (0.2 psi/ft x 7922' TVD)
 - 3. System is closed.
 - 4. Source of injection fluid will be Upper Penn produced water. Water analysis is attached
 - 5. Upper Penn produced water will be injected into the Wolfcamp and Upper Penn. There will be no compatibility problems.
- VIII. The injection zone is the Wolfcamp Lime from 7922' TVD to 7930' TVD and the Upper Penn Dolomite from 8133' TVD to 8693' TVD and is composed of lime and dolomite. Underground sources of drinking water will be shallower than 1500 feet deep.
- IX. The proposed injection zone will be acidized with 25,000 gallons 20% HCL acid if necessary.
- X. Logs are filed with the Division. Neutron Density sections across proposed SWD interval are attached. (Measured depth and true vertical depth.)
- XI. There is one fresh water well within 1 mile of the proposed SWD well. This well supplies water to two ranch houses and is located in Unit S, Sec. 3-T21S-R25E. Water analysis is attached. Also attached is a water analysis from the Pecos River located 1.5 miles east of proposed SWD.
- XII. After examining available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

III.

WELL DATA

Proposed Injection Wells

INJECTION WELL DATA SHEETOPERATOR: Marbobo Energy CorpWELL NAME & NUMBER: Double Trouble SWD No. 1 (Double Trouble Fed Com. 1)Surface: 940' FNL, 791' FFLWELL LOCATION: Bottom Hole: 791' FNL, 1860' FFL

A

3

215

25e

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC

See attached "Before" & "After" schematics.

Note: This well is a directional well drilled as an "S" curve to the target bottom hole location. The well is vertical from the Canyon section to TD. Directional survey is attached.

The 1/2 mile radius area of review is centered on the bottom hole location near base of Canyon formation (9400' MD).

WELL CONSTRUCTION DATASurface CasingHole Size: 12 1/4" Casing Size: 7 5/8" @ 1693'Cemented with: 750 sx. or - ft³Top of Cement: Surface Method Determined: CirculatedIntermediate CasingHole Size: 8 3/4" Casing Size: 7" @ 9608'Cemented with: 1550 sx. or - ft³Top of Cement: Surface Method Determined: CirculatedProduction CasingHole Size: 6 1/8" Casing Size: 4 1/2" 9500-11320'Cemented with: 175 sx. or - ft³Top of Cement: 9579' Method Determined: Circulated off of DV toolTotal Depth: 11320' MD @ 9579'Injection Interval8570' MD feet to 9340' MD

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" Lining Material: Plastic or Duoline
 Type of Packer: 10K retrievable double grip nickel plated
 Packer Setting Depth: ± 8525'
 Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? Yes X No
 If no, for what purpose was the well originally drilled? Oil & Gas
2. Name of the Injection Formation: Canyon, Wolfcamp
3. Name of Field or Pool (if applicable): Springs Upper Penn
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
See attached wellbore schematic
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Overlying: Delaware 2550'±
Underlying: Strawn 9300'± Morrow 10,000'±

Double Trouble Fed Comm

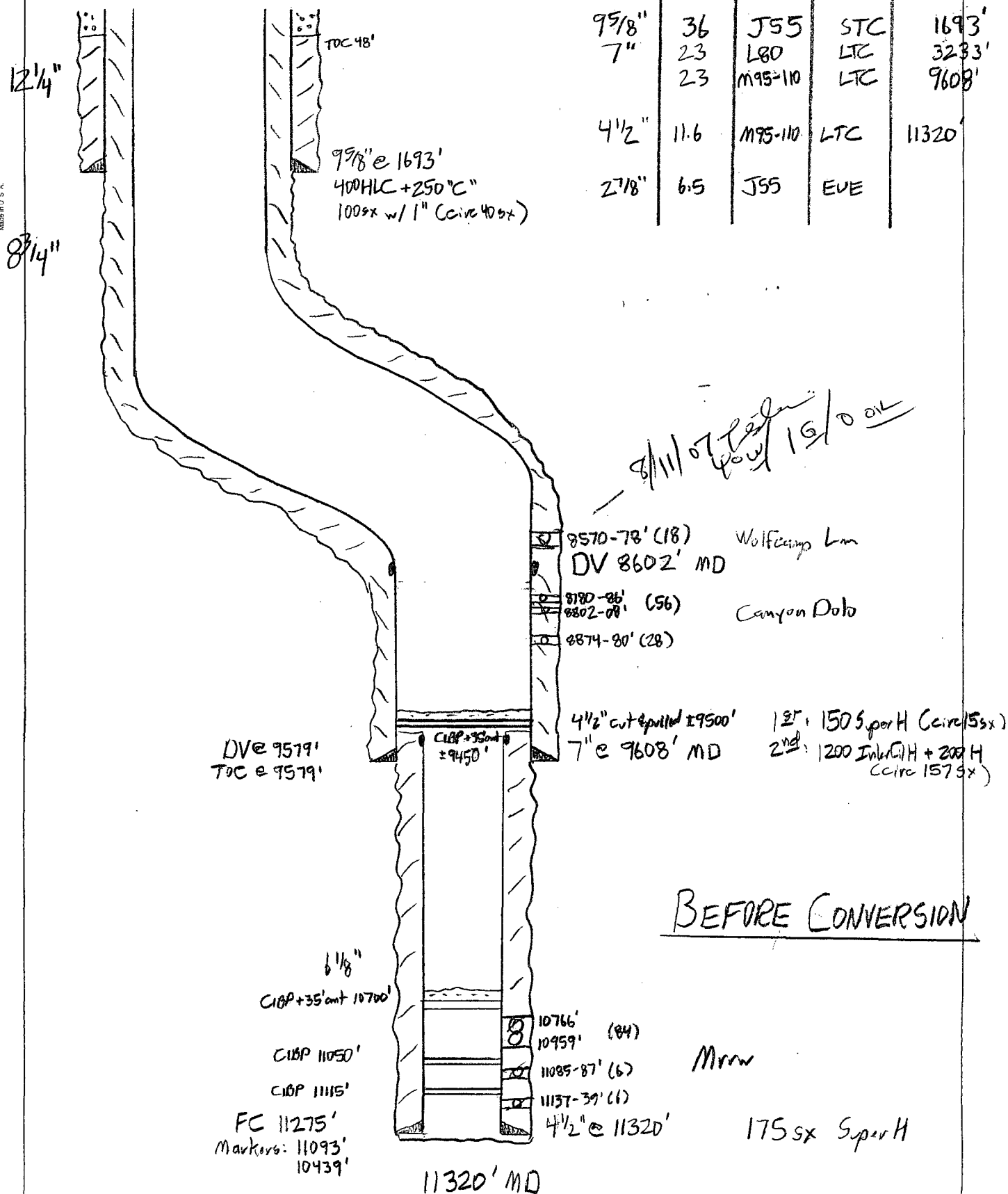
Surface: 940' FNL, 791' FEL Lot 1
Canyon BHL : 791' FNL, 1860' FWL Lot 3
3-215-25e
Eddy NM
30-015-33931

Zero: 17' AGL

KB : 3315'

GL: 3298

Size	WT	Gr	Conn	Depth
9 5/8"	36	J55	STC	1693'
7"	23	L80	LTC	3283'
	23	M95-110	LTC	9608'
4 1/2"	11.6	M95-110	LTC	11320'
2 7/8"	6.5	J55	EVE	

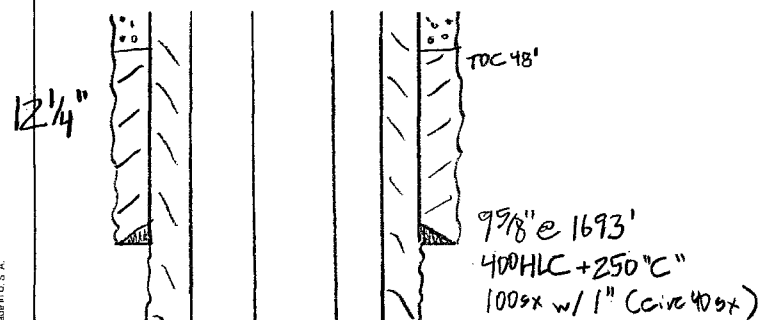


Double Trouble SWD No. 1

Surface: 940' FNL, 791' FEL Lot 1
 Canyon BHL: 791' FNL, 1860' FNL Lot 3
 3-215-25e
 Eddy NM
 30-015-33931

Zero: 17' AGL
 H/B: 3315'
 GL: 3298'

Size	WT	Gr	Conn	Depth
9 5/8"	36	J55	STC	1693'
7"	23	L80	LTC	3233'
	23	M95-110	LTC	9608'
4 1/2"	11.6	M75-110	LTC	11320'
2 7/8"	6.5	J55	EVE	



3 1/2" IAC Inj Tbg

Inj. Phr ± 8525' MD

8570-78' (18)

Wolfcamp Lm

DV 8602' MD

9730'

Canyon Dolo

9340'

4 1/2" cut & pulled 19500'

1st: 150 Super H (Circ 15sx)

7" e 9608' MD

2nd: 1200 Inj. CPH + 200 H (Circ 157sx)

DVE 9579'
 TOC e 9579'

CIBP + 35' ant ± 9450'

AFTER CONVERSION

6 1/8"
 CIBP + 35' ant 10700'

CIBP 11050'

CIBP 11115'

FC 11275'

Markers: 11093'
 10439'

10766' (84)

10959'

11085-87' (6)

11137-39' (6)

4 1/2" e 11320'

11320' MD

Mrrw

175sx Super H

50 SHEETS 5" X 11" 5 SQUARE
 100 SHEETS 5" X 11" 5 SQUARE
 200 SHEETS 5" X 11" 5 SQUARE
 42-381 100 RECYCLED WHITE 5 SQUARE
 42-382 100 RECYCLED WHITE 5 SQUARE
 42-383 200 RECYCLED WHITE 5 SQUARE
 Made in U.S.A.



Directional Survey

PathFinder

Survey Report

Company: Marbob Energy	Date: 4/28/2005	Time: 09:55:15	Page: 1
Field: Double Trouble Fed Com #1	Co-ordinate(NE) Reference: Well: Double Trouble Fed Com #1		
Site: Section 3, T-21S, R-25E	Vertical (TVD) Reference: SITE 0.0		
Well: Double Trouble Fed Com #1	Section (VS) Reference: Well (0.00N,0.00E,276.37Azi)		
Wellpath: Gyro Survey	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Double Trouble Fed Com #1

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Section 3, T-21S, R-25E

Eddy County, New Mexico

Site Position:	Northing: 552835.60 ft	Latitude: 32 31 11.450 N
From: Geographic	Easting: 486701.46 ft	Longitude: 104 22 35.320 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 3298.00 ft		Grid Convergence: -0.02 deg

Well: Double Trouble Fed Com #1

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 552835.60 ft	Latitude: 32 31 11.450 N
+E/-W 0.00 ft	Easting: 486701.46 ft	Longitude: 104 22 35.320 W
Position Uncertainty: 0.00 ft		

Wellpath: Gyro Survey

Current Datum: SITE	Height 0.00 ft	Drilled From: Surface
Magnetic Data: 3/29/2005		Tie-on Depth: 0.00 ft
Field Strength: 49362 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 8.65 deg
ft	ft	Mag Dip Angle: 60.47 deg
		+E/-W ft
		Direction deg
0.00	0.00	276.37

Survey: PathFinder MWD Surveys

Start Date: 4/4/2005

Company: PathFinder Energy Services
Tool:

Engineer: Ron McIntyre
Tied-to: From: Definitive Path

Survey: PathFinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1960.00	0.56	260.40	1959.93	8.20	-7.96	8.82	0.00	0.00	0.00	Tie-In to Gyro Begin PathFinder MWD Sur
2020.00	1.76	276.89	2019.92	8.26	-9.16	10.02	2.06	2.00	27.48	
2094.00	3.25	291.57	2093.85	9.17	-12.24	13.18	2.18	2.01	19.84	
2157.00	4.57	291.48	2156.70	10.74	-16.24	17.33	2.10	2.10	-0.14	
2221.00	5.72	285.33	2220.44	12.52	-21.68	22.94	1.99	1.80	-9.61	
2281.00	6.86	284.71	2280.08	14.22	-28.03	29.44	1.90	1.90	-1.03	
2345.00	8.09	279.97	2343.54	15.97	-36.17	37.72	2.15	1.92	-7.41	
2409.00	8.65	279.70	2406.85	17.56	-45.35	47.01	0.88	0.87	-0.42	
2472.00	10.82	279.88	2468.94	19.37	-55.84	57.65	3.44	3.44	0.29	
2536.00	10.73	276.45	2531.82	21.07	-67.68	69.60	1.01	-0.14	-5.36	
2599.00	11.61	276.36	2593.62	22.44	-79.81	81.81	1.40	1.40	-0.14	
2666.00	12.75	277.95	2659.11	24.20	-93.83	95.94	1.77	1.70	2.37	
2729.00	13.54	274.96	2720.46	25.80	-108.07	110.26	1.65	1.25	-4.75	
2793.00	14.77	275.05	2782.52	27.17	-123.66	125.91	1.92	1.92	0.14	
2857.00	15.83	275.13	2844.25	28.67	-140.48	142.79	1.66	1.66	0.12	
2920.00	16.53	274.96	2904.75	30.21	-157.96	160.34	1.11	1.11	-0.27	
2984.00	17.15	275.49	2966.01	31.90	-176.43	178.88	1.00	0.97	0.83	
3047.00	17.59	274.70	3026.13	33.57	-195.16	197.68	0.79	0.70	-1.25	
3111.00	18.73	273.38	3086.95	34.97	-215.06	217.61	1.89	1.78	-2.06	
3175.00	19.52	272.23	3147.41	35.99	-236.00	238.54	1.37	1.23	-1.80	
3238.00	20.31	270.74	3206.65	36.54	-257.45	259.92	1.49	1.25	-2.37	
3302.00	21.37	272.06	3266.46	37.10	-280.21	282.60	1.81	1.66	2.06	
3365.00	22.34	272.15	3324.93	37.97	-303.65	305.98	1.54	1.54	0.14	
3429.00	23.21	273.29	3383.94	39.15	-328.39	330.71	1.52	1.36	1.78	

PathFinder

Survey Report

Company: Marbob Energy	Date: 4/28/2005	Time: 09:55:15	Page: 2
Field: Double Trouble Fed Com #1	Co-ordinate(NE) Reference: Well: Double Trouble Fed Com #1		
Site: Section 3, T-21S, R-25E	Vertical (TVD) Reference: SITE 0.0		
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Wellpath: Gyro Survey	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: PathFinder MWD Surveys

MD ft	Incl. deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
3493.00	23.74	274.43	3442.64	40.86	-353.83	356.18	1.09	0.83	1.78	
3556.00	24.27	273.38	3500.19	42.61	-379.40	381.78	1.08	0.84	-1.67	
3620.00	25.06	272.23	3558.35	43.91	-406.07	408.44	1.44	1.23	-1.80	
3683.00	26.12	272.59	3615.17	45.06	-433.26	435.58	1.70	1.68	0.57	
3747.00	27.35	274.96	3672.33	46.96	-461.98	464.34	2.54	1.92	3.70	
3811.00	28.40	274.61	3728.91	49.46	-491.80	494.25	1.66	1.64	-0.55	
3874.00	29.19	273.82	3784.12	51.69	-522.06	524.57	1.39	1.25	-1.25	
3938.00	29.90	271.88	3839.79	53.25	-553.58	556.07	1.86	1.11	-3.03	
4001.00	30.60	271.27	3894.22	54.12	-585.30	587.69	1.21	1.11	-0.97	
4065.00	31.13	273.02	3949.15	55.35	-618.11	620.43	1.63	0.83	2.73	
4127.00	32.36	271.44	4001.88	56.61	-650.70	652.97	2.39	1.98	-2.55	
4190.00	33.06	271.97	4054.89	57.63	-684.73	686.90	1.20	1.11	0.84	
4253.00	33.33	271.71	4107.61	58.74	-719.21	721.28	0.48	0.43	-0.41	
4317.00	33.59	271.71	4161.00	59.79	-754.48	756.45	0.41	0.41	0.00	
4381.00	33.59	271.36	4214.31	60.74	-789.87	791.73	0.30	0.00	-0.55	
4445.00	33.33	270.74	4267.71	61.38	-825.15	826.87	0.67	-0.41	-0.97	
4508.00	32.98	269.77	4320.45	61.54	-859.61	861.13	1.01	-0.56	-1.54	
4572.00	32.98	268.89	4374.14	61.13	-894.44	895.70	0.75	0.00	-1.37	
4635.00	33.68	267.31	4426.78	59.98	-929.03	929.95	1.77	1.11	-2.51	
4699.00	34.21	268.98	4479.87	58.83	-964.75	965.32	1.68	0.83	2.61	
4763.00	34.65	269.33	4532.66	58.29	-1000.93	1001.22	0.75	0.69	0.55	
4826.00	35.00	269.42	4584.37	57.90	-1036.91	1036.93	0.56	0.56	0.14	
4890.00	35.26	270.04	4636.72	57.73	-1073.73	1073.51	0.69	0.41	0.97	
4953.00	35.00	268.81	4688.24	57.37	-1109.98	1109.49	1.20	-0.41	-1.95	
5017.00	35.00	270.98	4740.67	57.30	-1146.69	1145.96	1.94	0.00	3.39	
5080.00	35.53	270.65	4792.11	57.82	-1183.06	1182.17	0.89	0.84	-0.52	
5144.00	35.35	270.83	4844.25	58.29	-1220.16	1219.10	0.33	-0.28	0.28	
5208.00	35.00	271.18	4896.56	58.94	-1257.03	1255.80	0.63	-0.55	0.55	
5271.00	34.56	271.00	4948.31	59.62	-1292.96	1291.59	0.72	-0.70	-0.29	
5335.00	34.03	271.00	5001.18	60.25	-1329.01	1327.49	0.83	-0.83	0.00	
5399.00	33.68	271.80	5054.33	61.12	-1364.65	1363.01	0.89	-0.55	1.25	
5462.00	33.85	271.71	5106.70	62.20	-1399.65	1397.91	0.28	0.27	-0.14	
5526.00	33.50	272.94	5159.97	63.63	-1435.11	1433.31	1.20	-0.55	1.92	
5590.00	33.06	271.27	5213.47	64.93	-1470.20	1468.33	1.59	-0.69	-2.61	
5653.00	32.98	270.21	5266.29	65.37	-1504.53	1502.49	0.93	-0.13	-1.68	
5717.00	32.98	267.75	5319.98	64.75	-1539.35	1537.03	2.09	0.00	-3.84	
5780.00	32.62	266.87	5372.94	63.15	-1573.44	1570.73	0.95	-0.57	-1.40	
5844.00	33.41	268.72	5426.61	61.81	-1608.28	1605.21	2.00	1.23	2.89	
5907.00	33.68	268.89	5479.11	61.09	-1643.09	1639.72	0.45	0.43	0.27	
5971.00	33.33	269.60	5532.48	60.62	-1678.41	1674.78	0.82	-0.55	1.11	
6034.00	33.06	268.45	5585.20	60.04	-1712.90	1708.99	1.09	-0.43	-1.83	
6098.00	32.54	270.30	5639.00	59.65	-1747.56	1743.39	1.76	-0.81	2.89	
6161.00	32.08	270.04	5692.24	59.75	-1781.24	1776.87	0.76	-0.73	-0.41	
6228.00	32.54	271.62	5748.87	60.28	-1817.04	1812.51	1.44	0.69	2.36	
6292.00	33.33	272.41	5802.58	61.50	-1851.81	1847.21	1.40	1.23	1.23	
6355.00	34.47	273.82	5854.88	63.42	-1886.90	1882.28	2.20	1.81	2.24	
6419.00	33.85	276.63	5907.84	66.68	-1922.68	1918.20	2.65	-0.97	4.39	
6482.00	33.33	280.85	5960.32	71.97	-1957.11	1953.01	3.80	-0.83	6.70	
6546.00	33.24	280.23	6013.82	78.39	-1991.64	1988.04	0.55	-0.14	-0.97	
6609.00	32.45	280.41	6066.75	84.51	-2025.26	2022.13	1.26	-1.25	0.29	
6673.00	31.30	280.23	6121.10	90.57	-2058.50	2055.84	1.80	-1.80	-0.28	
6737.00	30.25	278.83	6176.09	96.00	-2090.80	2088.54	1.99	-1.64	-2.19	
6800.00	29.81	278.30	6230.63	100.69	-2121.97	2120.04	0.82	-0.70	-0.84	

PathFinder

Survey Report

Company: Marbob Energy
Field: Double Trouble Fed Com #1
Site: Section 3, T-21S, R-25E
Well: Double Trouble Fed Com #1
Wellpath: Gyro Survey

Date: 4/28/2005 **Time:** 09:55:15 **Page:** 3
Co-ordinate(NE) Reference: Well: Double Trouble Fed Com #1
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,276.37Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: PathFinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6864.00	28.40	278.04	6286.55	105.12	-2152.79	2151.16	2.21	-2.20	-0.41	
6927.00	27.44	276.80	6342.22	108.93	-2182.04	2180.65	1.78	-1.52	-1.97	
6991.00	25.94	275.66	6399.40	112.06	-2210.61	2209.39	2.48	-2.34	-1.78	
7055.00	24.97	274.61	6457.18	114.52	-2238.00	2236.89	1.67	-1.52	-1.64	
7118.00	24.62	273.64	6514.37	116.43	-2264.36	2263.29	0.85	-0.56	-1.54	
7184.00	22.69	273.82	6574.83	118.15	-2290.78	2289.74	2.93	-2.92	0.27	
7247.00	21.37	273.64	6633.23	119.69	-2314.36	2313.35	2.10	-2.10	-0.29	
7311.00	19.79	273.73	6693.14	121.13	-2336.81	2335.82	2.47	-2.47	0.14	
7375.00	18.82	273.82	6753.54	122.52	-2357.92	2356.96	1.52	-1.52	0.14	
7438.00	17.59	272.15	6813.39	123.56	-2377.57	2376.60	2.12	-1.95	-2.65	
7501.00	17.50	272.41	6873.45	124.31	-2396.55	2395.55	0.19	-0.14	0.41	
7565.00	16.62	273.73	6934.64	125.31	-2415.30	2414.29	1.50	-1.37	2.06	
7628.00	15.83	274.52	6995.13	126.58	-2432.86	2431.88	1.30	-1.25	1.25	
7692.00	14.60	273.64	7056.88	127.78	-2449.61	2448.66	1.96	-1.92	-1.37	
7756.00	14.07	274.61	7118.89	128.91	-2465.41	2464.49	0.91	-0.83	1.52	
7819.00	13.28	273.29	7180.11	129.95	-2480.27	2479.37	1.35	-1.25	-2.10	
7883.00	12.66	272.76	7242.47	130.70	-2494.61	2493.71	0.99	-0.97	-0.83	
7946.00	11.61	274.08	7304.06	131.49	-2507.83	2506.94	1.72	-1.67	2.10	
8010.00	10.90	277.95	7366.83	132.78	-2520.25	2519.42	1.62	-1.11	6.05	Last PathFinder MWD Survey Begin Single Shot Surveys
8220.00	8.60	278.15	7573.79	137.76	-2555.46	2554.97	1.10	-1.10	0.10	
8435.00	5.30	272.95	7787.18	140.55	-2581.30	2580.95	1.56	-1.53	-2.42	
8626.00	3.40	289.05	7977.63	142.85	-2595.46	2595.29	1.17	-0.99	8.43	
8824.00	3.01	282.32	8175.32	145.88	-2606.09	2606.19	0.27	-0.20	-3.40	
9020.00	2.50	279.69	8371.09	147.69	-2615.33	2615.57	0.27	-0.26	-1.34	
9210.00	2.05	274.88	8560.94	148.68	-2622.80	2623.11	0.26	-0.24	-2.53	
9400.00	1.98	273.66	8750.82	149.18	-2629.47	2629.78	0.04	-0.04	-0.64	Last SS Survey

Annotation

MD ft	TVD ft	
1960.00	1959.93	Tie-In to Gyro
2020.00	2019.92	Begin PathFinder MWD Surveys
8010.00	7366.83	Last PathFinder MWD Survey
8220.00	7573.79	Begin Single Shot Surveys
9400.00	8750.82	Last SS Survey

Marbob Energy Corporation

Double Trouble Fed Com #1 Section 3, T21-S, R25-E Eddy County, New Mexico Single Shot Surveys

COMPANY DETAILS

Marbob Energy
2208 W. Main St.
Artesia, New Mexico

Calculation Method: Minimum Curvature
Error System: Systematic Ellipse
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio



WELLPATH DETAILS

Gyro Survey

Ref. Datum:	Rig:	Patriot #3 SITE	0.00ft
V. Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
276.37°	0.00	0.00	0.00

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Double Trouble Fed Com #1	0.00	0.00	552835.60	486701.46	32°31'11.450N	104°22'35.320W	N/A

Survey: PathFinder MWD Surveys (Double Trouble Fed Com #1/Gyro Survey)

No.	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
96	8010.00	10.90	277.95	7366.83	132.78	-2520.25	1.62	135.11	2519.42
97	8220.00	8.60	278.15	7573.79	137.76	-2555.46	1.10	179.25	2554.97
98	8435.00	5.30	272.95	7787.18	140.55	-2581.30	1.56	-171.78	2580.95
99	8626.00	3.40	289.05	7977.63	142.85	-2595.46	1.17	155.12	2595.29
100	8824.00	3.01	282.32	8175.32	145.88	-2606.09	0.27	-139.35	2606.19
101	9020.00	2.50	279.69	8371.09	147.69	-2615.33	0.27	-167.39	2615.57
102	9210.00	2.05	274.88	8560.94	148.68	-2622.80	0.26	-159.40	2623.11
103	9400.00	1.98	273.66	8750.82	149.18	-2629.47	0.04	-149.11	2629.78

ANNOTATIONS

No.	TVD	MD	Annotation
1	1959.93	1960.00	Tie-In to Gyro
2	2019.92	2020.00	Begin PathFinder MWD Surveys
3	7366.83	8010.00	Last PathFinder MWD Survey
4	7573.79	8220.00	Begin Single Shot Surveys
5	8750.82	9400.00	Last SS Survey

SITE DETAILS

Section 3, T-21S, R-25E
Eddy County, New Mexico

Site Centre Latitude: 32°31'11.450N
Longitude: 104°22'35.320W

Ground Level: 3298.00
Positional Uncertainty: 0.00
Convergence: -0.02

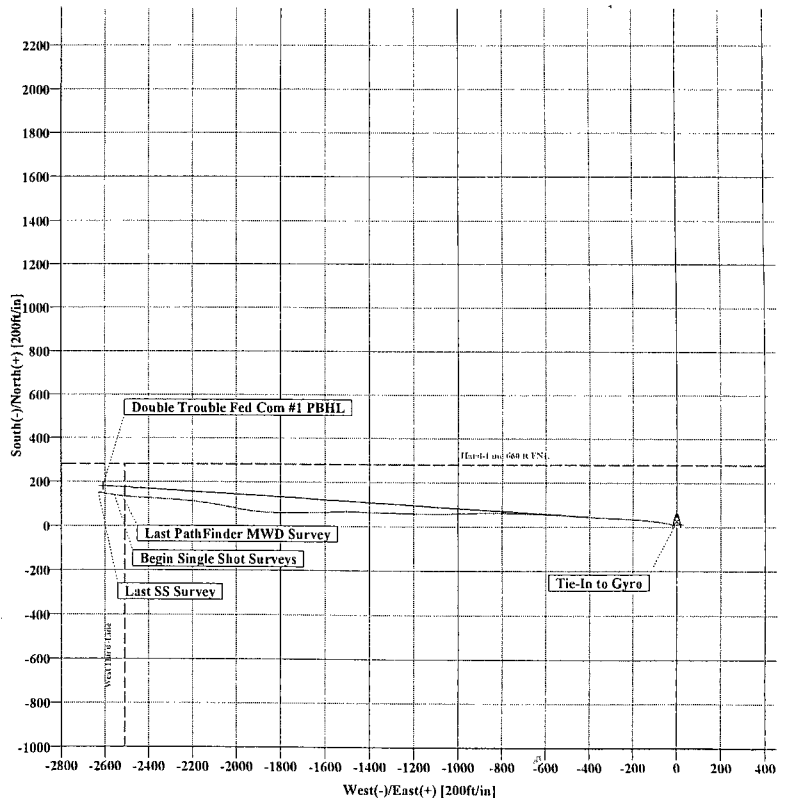
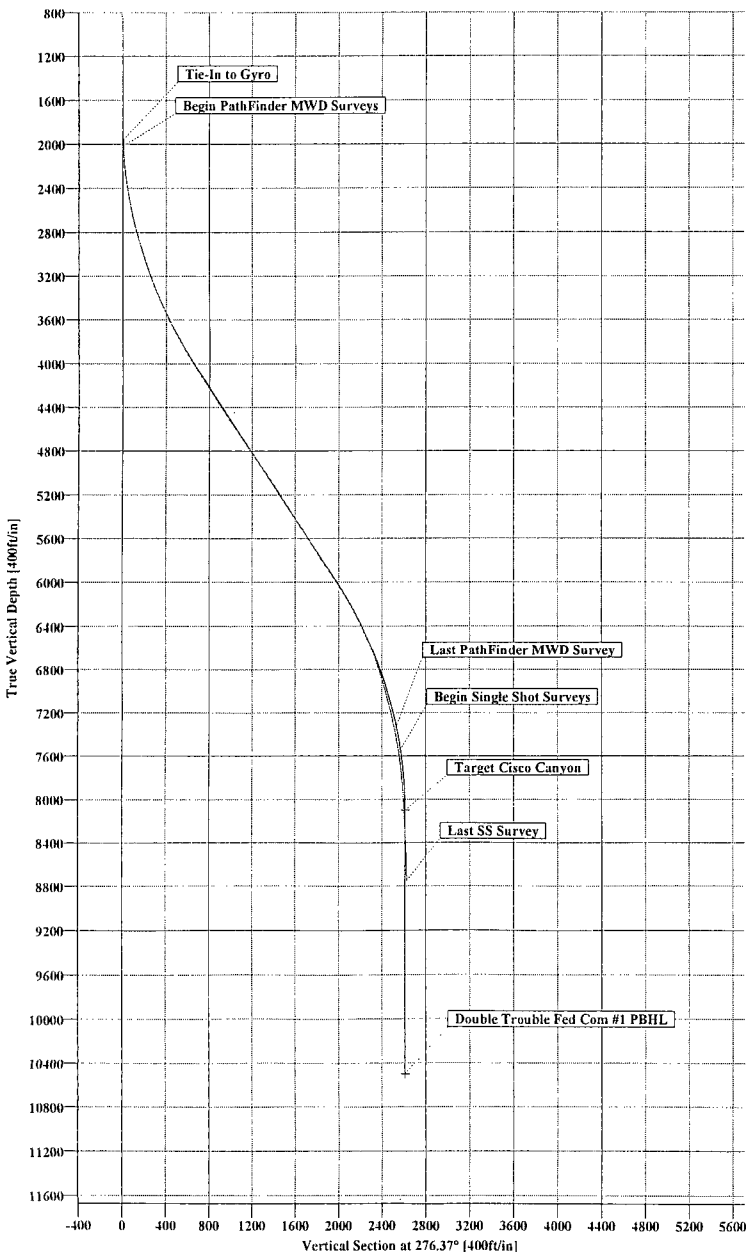


Azimuths to True North
Magnetic North: 8.65°

Magnetic Field
Strength: 49362nT
Dip Angle: 60.47°
Date: 3/29/2005
Model: igrf2005

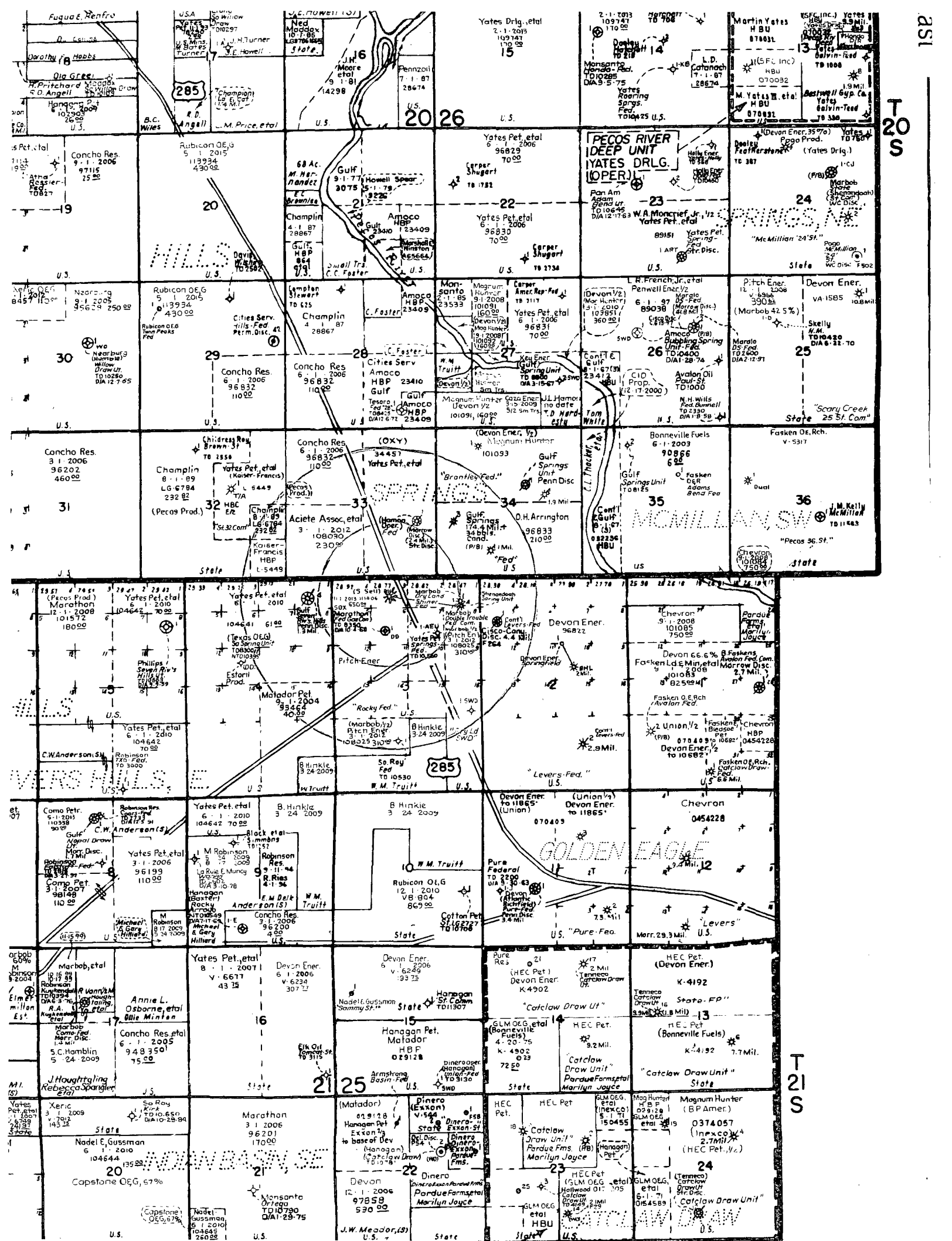
LEGEND

Plan #3 040505
Section 3, T-21S, R-25E, Double Trouble Fed Com #1, Gyro Survey
PathFinder MWD Surveys



V.

MAP



VI.

Wells Within 1/2 Mile Area of Review

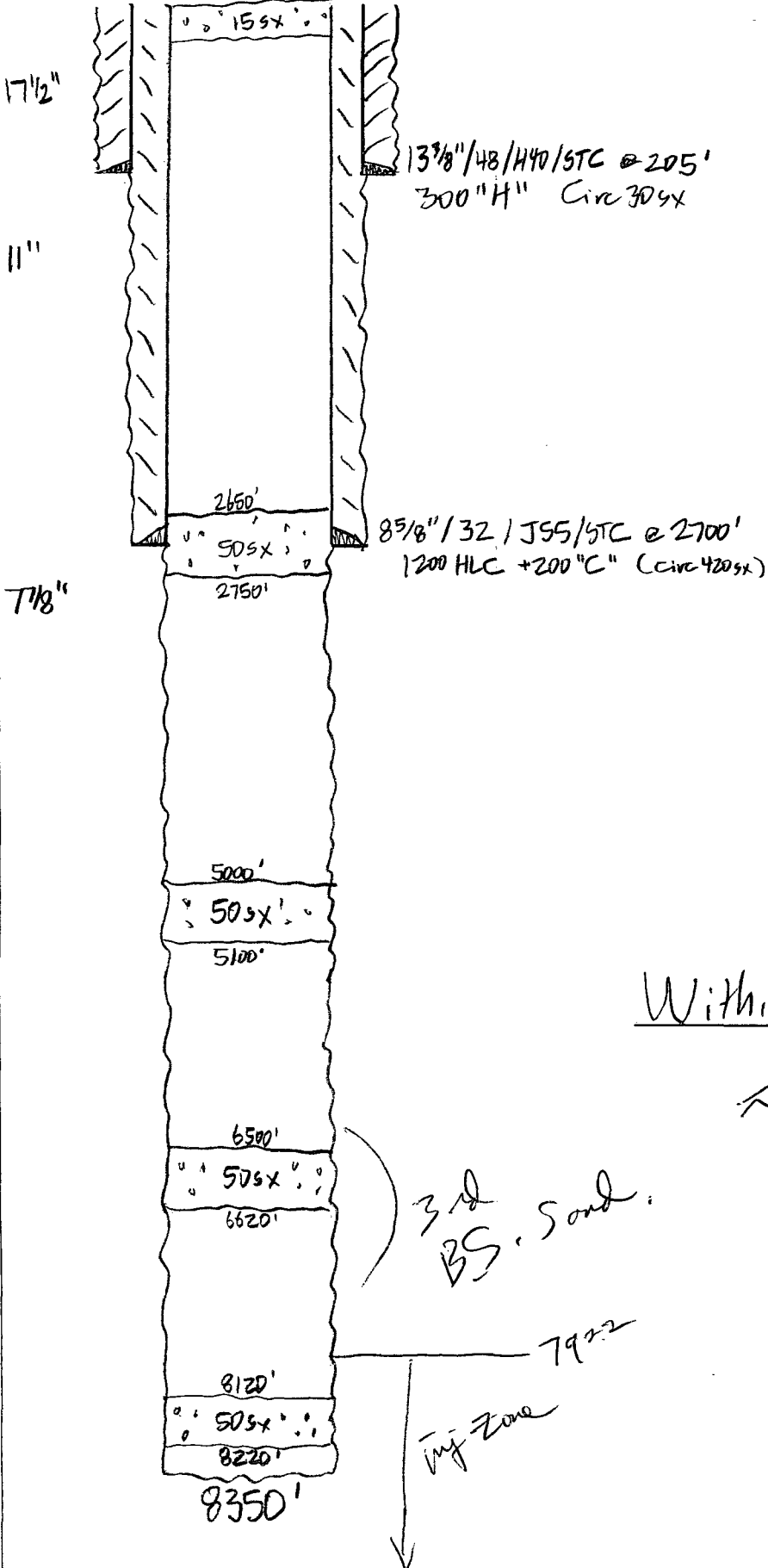
Federal Gas Com. I

1849' FWL, 1919' FWL

F-3-219-25c

Eddy, NM

30-015-20158



Within Area of Review

≈ 1/4 mile away

30-015-25865

Hand-drawn stratigraphic column diagram showing geological layers with various annotations including thicknesses, elevations, and well identifiers.

Left Side Annotations:

- 17' 1/2"
- 12' 1/4"
- 7' 7/8"
- BP + 35' ant 3670'
- BP + 35' ant 4550'
- BP + 35' ant 7100'
- BP + 35' ant 9995'

Right Side Annotations:

- TD
- 178
- 85
- 70
- TD C 3
- 4591-
- 4857-
- 7172-
- Rtnr 7
- Perf 74
- Rtnr 8
- Perf 8
- Rtnr 8
- Cut c
- 10102-
- 5 1/2"
- 3

Internal Column Annotations (from top to bottom):

- 105x
- 290'
- 75x
- 580'
- 1700'
- 305x
- 1800'
- 2750'
- 35x
- 2850'
- 35x
- 3670'
- 4550'
- 7100'
- 9995'
- 10560'

5 1/2" / 17, 15.5 / N80, J55 / LTCQ 10560'
375 "H"

($\approx 2600'$ away)



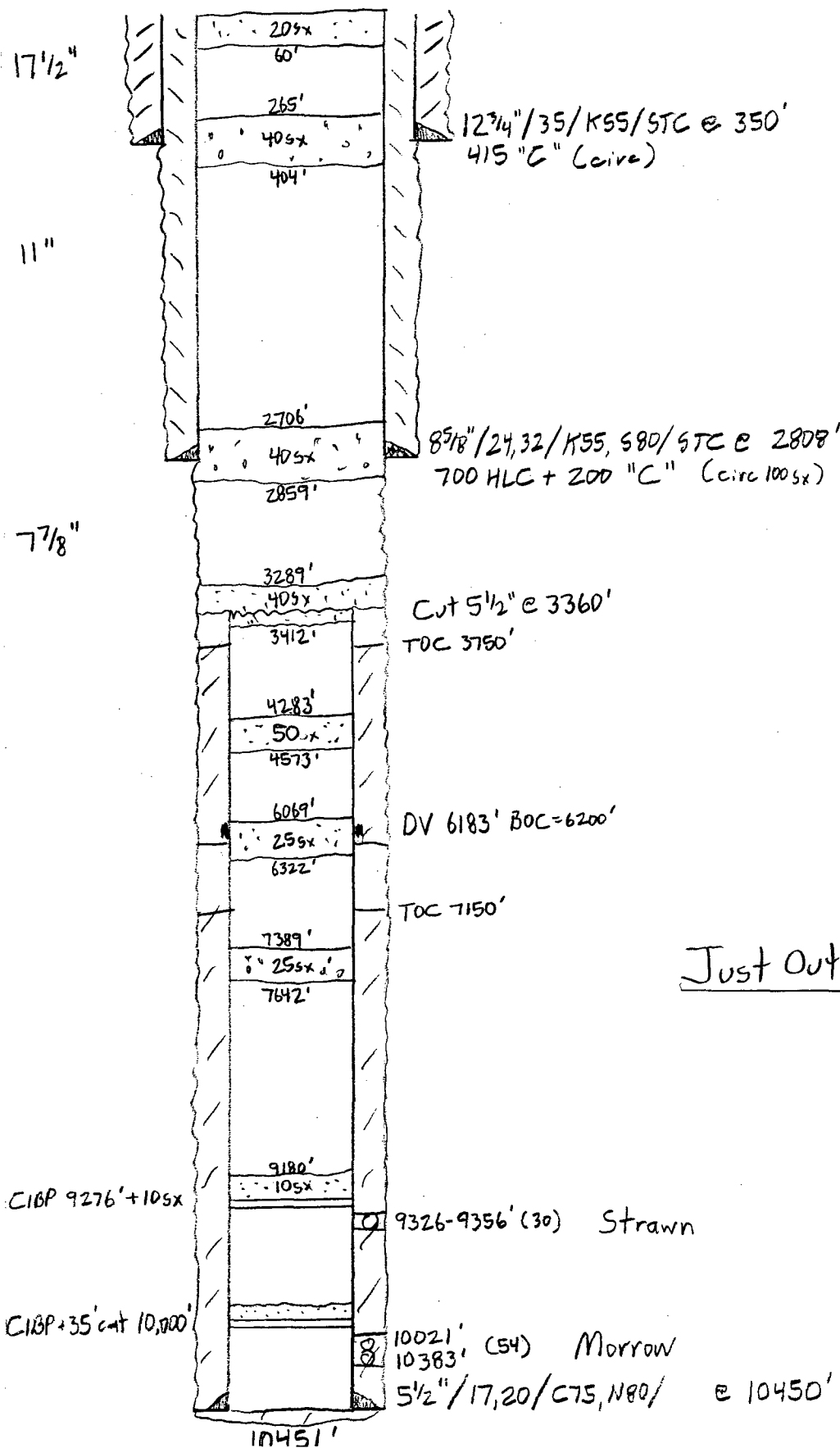
National® Brand

VI.

Wells Just Outside 1/2 Mile Area of Review

Federal 33-1

1980' FSL, 690' FEL
I-33-205-26e
Eddy, NM



HB Collins / 16 Mar 04

Springs Unit 4
1000' FNE, 660' FEL
H-3-21s. 21e
Eddy NM
30-015-20294

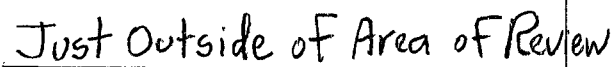


National® Brand

300 SHEETS, FILLEN 5 SQUARE
50 SHEETS EYE-EASE® 5 SQUARE
100 SHEETS EYE-EASE® 5 SQUARE
200 SHEETS EYE-EASE® 5 SQUARE
100 RECYCLED WHITE 5 SQUARE
200 RECYCLED WHITE 5 SQUARE



National® Brand



VII.

Water Analysis of Injection and Produced Water



Water Analysis of Produced & Receiving Formation Water in Springs Area Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

WEST UNIVERSITY AND WESTOVER STREET

P.O. BOX 68210

ODESSA, TEXAS 79760-0210

PHONE (915) 337-4744

FAX (915) 337-8781

N/S.F.S. OPERATING INC.

BJ CATHY

BOX 250

SIA, NEW MEXICO 88210

SAMPLE RECEIVED : 02-26-2002

ANALYSIS COMPLETED: 03-01-2002

LAB NUMBER : 294

LE SOURCE: LEVERS 2 FED #1

Sec. 2-21s-25e

Upper Penn

DISSOLVED SOLIDS:

IONS:	MEQ/L	mg/L
SODIUM_____ (Na+)	140.02	3220
CALCIUM_____ (Ca++)	28.00	560
MAGNESIUM_____ (Mg++)	10.00	122
CHLORIDE_____ (Cl-)	117.21	4161
SULFATE_____ (SO4=)	47.81	2295
CARBONATE_____ (CO3=)	4.00	120
BICARBONATE_____ (HCO3-)	9.00	549
HYDROXIDE_____ (OH-)	0.00	0
TOTAL DISSOLVED SOLIDS:		11027

OTHER PROPERTIES:

PH	8.37	P-ALKALINITY (AS CaCO3)	100 mg/L
SPEC. GRAV.	1.00	M-ALKALINITY (AS CaCO3)	650 mg/L
CONDUCTIVITY	16640 μ MHOS/CM	CALCIUM HARDNESS (AS CaCO3)	1400 mg/L
SODIUM	313 mg/L	MAGNESIUM HARDNESS (AS CaCO3)	500 mg/L
CALCIUM	0 mg/L	TOTAL HARDNESS (AS CaCO3)	1900 mg/L
IRON	0.10 mg/L	TPH	57 mg/L

X.

**Neutron Density
Log Across
Proposed
Disposal Interval
(Measured Depth
and True Vertical
Depth Logs**

HALLIBURTON

SPECTRAL GAMMA RAY DUAL-SPACED NEUTRON SPECTRAL DENSITY COMPOSITE RUNS 1&2

COMPANY MARBOB ENERGY CORPORATION
WELL DOUBLE TROUBLE FED COM No.1
FIELD SPRINGS; MORROW
COUNTY EDDY STATE NM

COMPANY MARBOB ENERGY CORPORATION
WELL DOUBLE TROUBLE FED COM No.1
FIELD SPRINGS; MORROW
COUNTY EDDY STATE NM
API No. 30-015-33931
Location 940' FNL & 791' FEL
Other Services DLMGRD
Sect 3 Twp 21S Rge 25E

Permanent Datum GROUND LEVEL Elev 3298
Log measured from K.B. 17 ft. above perm. datum
Drilling measured from KELLY BUSHING Elev: K.B. 3315
D.F. 3314
G.L. 3298

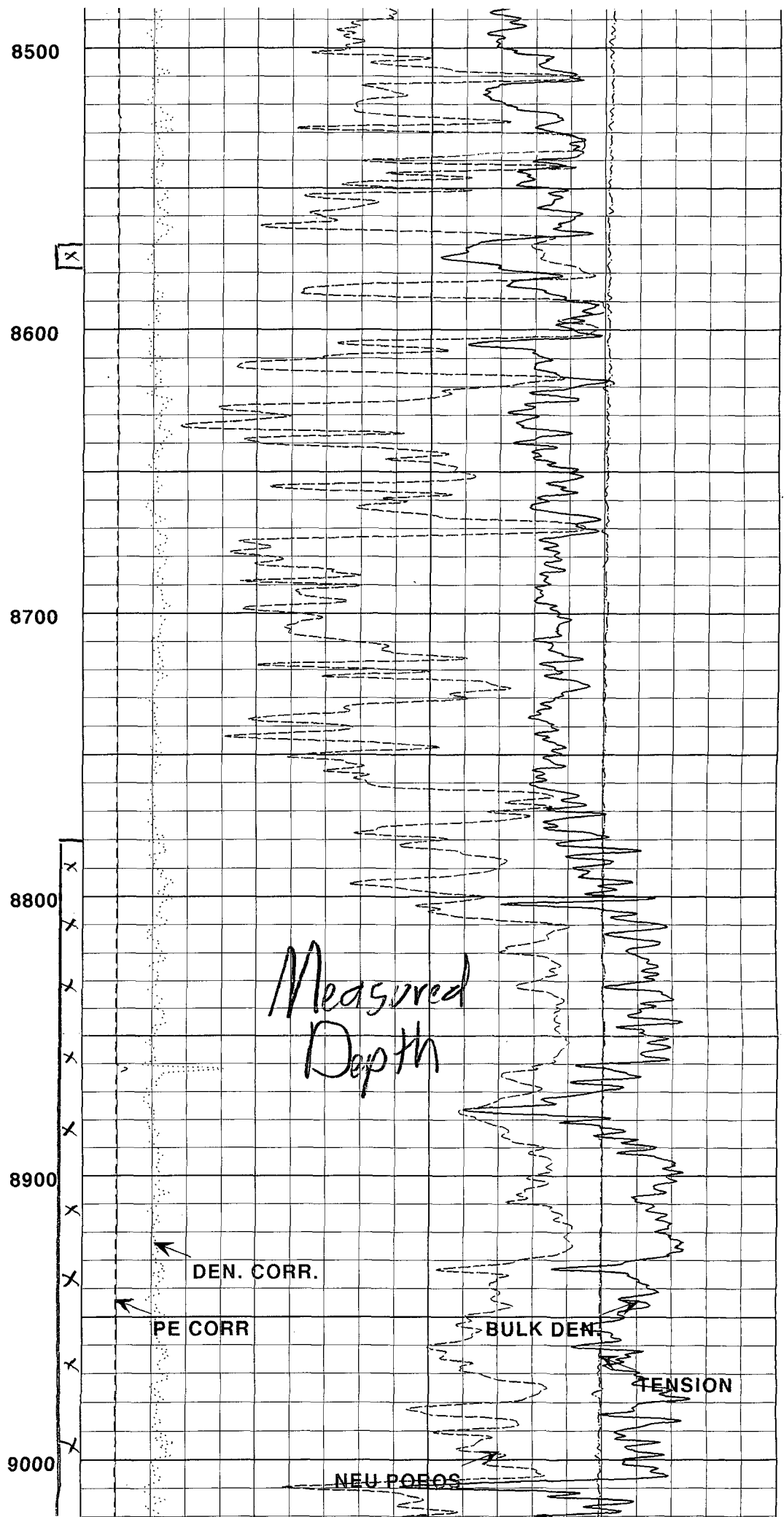
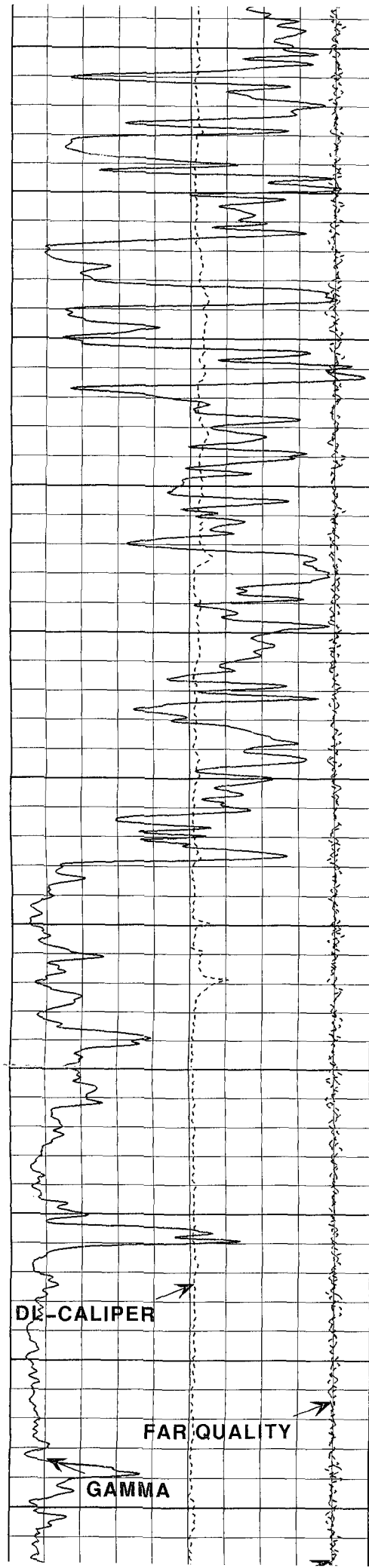
Date	29-APRIL-05	MAY-11-2005		
Run No.	ONE	TWO		
Depth - Driller	9608	11320'		
Depth - Logger	9588	11295'		
Bottom - Logged Interval	9583	11245'		
Top - Logged Interval	200	9581'		
Casing - Driller	9.625 @ 1693	7" @ 9608'	@	@
Casing - Logger	1686	9581'		
Bit Size	8.75	6.125"		
Type Fluid in Hole	BRINE	SALT GEL		
Dens. Visc.	9.5 31	9.1 32		
Ph Fluid Loss	9 N/A	11 9		
Source of Sample	FLOW LINE	MUD PIT		
Rm @ Meas. Temp.	.069 @ 74 F	0.104 @ 70 F	@	@
Rmf @ Meas. Temp.	.069 @ 74 F	0.088 @ 70 F	@	@
Rmc @ Meas. Temp.	N/A @ N/A	0.132 @ 70 F	@	@
Source Rmf Rmc	MEAS N/A	MEAS. MEAS.		
Rm @ BHT	0.034 @ 159 F	0.045 @ 171 F	@	@
Time Since Circ.	0800 04/29	1900 05-10		
Time on Bottom	2307 04/29	0430 05-11		
Max. Rec. Temp.	159 F @ 9588	171 F @ T.D.	@	@
Equip. Location	582 HOBBS	388 HOBBS		
Recorded By	J. MOUNT	MERCADO		
Witnessed By	MAY/The Count	B. MAY		

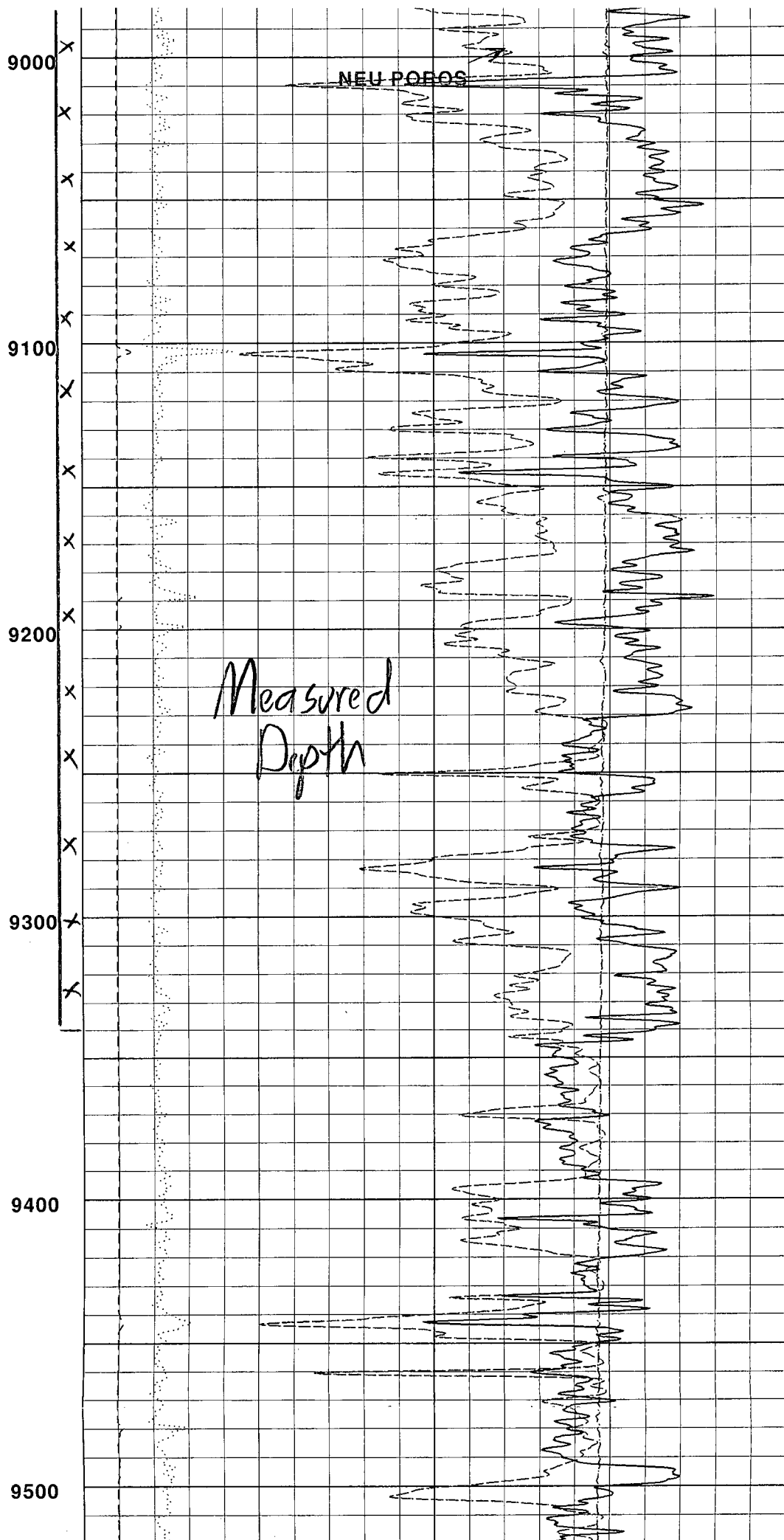
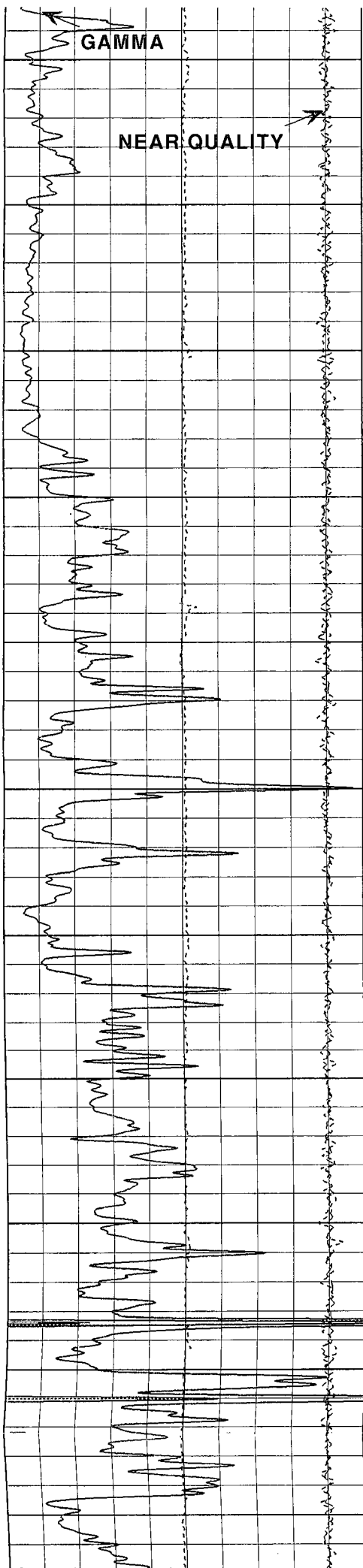
Measured Depth

Service Ticket No.:		3670289		API Serial No.:		30-015-33931		PGM Version:		
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES				RESISTIVITY SCALE CHANGES						
Date Sample No.						Type Log	Depth	Scale Up Hole		Scale Down Hole
Depth – Driller										
Type Fluid										
in Hole										
Dens. Visc.										
Ph Fluid Loss										
Source of Sample				RESISTIVITY EQUIPMENT DATA						
Rm @ Meas. Temp.		@	0.104	@ 70 F	Run No.	Tool Type & No.		Pad Type	Tool Pos.	Other
Rmf @ Meas. Temp.		@	0.088	@ 70 F						
Rmc @ Meas. Temp.		@	0.132	@ 70 F						
Source Rmf Rmc			CALC.	CALC.						
Rm @ BHT		@	0.045	@ 171 F						
Rmf @ BHT		@	0.038	@ 171 F						
Rmc @ BHT		@	0.057	@ 171 F						

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	109021WH	Serial No.		Serial No.	AD44YL	Serial No.	108772YL
Model No.	CSNGDT	Model No.		Model No.	SDL_DA	Model No.	DSNT-A
Diameter	3.625"	No. of Cent.		Diameter	4.50"	Diameter	3.625"
Detector Model No.	T102-A	Spacing		Log Type	GAM_GAM	Log Type	NEU_NEU
Type	SCINT			Source Type	Cs137	Source Type	Am241Be
Length	12"	LSA [Y / N]		Serial No.	2549GW	Serial No.	DSN-90
Distance to Source	16'	FWDA [Y / N]		Strength	1.5Ci	Strength	18.5Ci





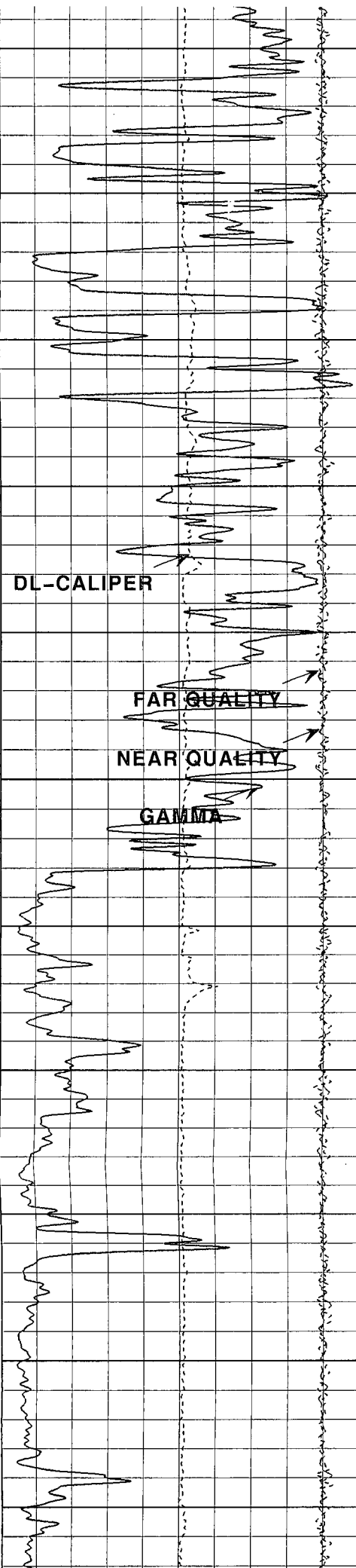
HALLIBURTON

SPECTRAL GAMMA RAY DUAL-SPACED NEUTRON SPECTRAL DENSITY TRUE VERTICAL DEPTH

COMPANY <u>MARBOB ENERGY CORPORATION</u>		WELL <u>DOUBLE TROUBLE FED COM No.1</u>		FIELD <u>SPRINGS; MORROW</u>		COUNTY <u>EDDY</u> STATE <u>NM</u>	
Permanent Datum <u>GROUND LEVEL</u> Elev <u>3298</u>		Log measured from <u>K.B.</u> <u>17</u> ft. above perm. datum		Drilling measured from <u>KELLY BUSHING</u>		Date <u>29-APRIL-05</u> <u>MAY-11-2005</u>	
Run No. <u>ONE</u>		Depth - Driller <u>9608</u>		Depth - Logger <u>9588</u>		Bottom - Logged Interval <u>9583</u>	
Top - Logged Interval <u>200</u>		Casing - Driller <u>9.625 @ 1693</u>		Casing - Logger <u>1686</u>		Bit Size <u>8.75</u>	
Type Fluid in Hole <u>BRINE</u>		Dens. Visc. <u>9.5</u> <u>31</u>		Ph Fluid Loss <u>9</u> <u>N/A</u>		Source of Sample <u>FLOW LINE</u>	
Rm @ Meas. Temp. <u>.069 @ 74 F</u>		Rmf @ Meas. Temp. <u>.069 @ 74 F</u>		Rmc @ Meas. Temp. <u>N/A @ N/A</u>		Source Rmf Rmc <u>MEAS N/A</u>	
Rm @ BHT <u>0.034 @ 159 F</u>		Time Since Circ. <u>0800 04/29</u>		Time on Bottom <u>2307 04/29</u>		Max. Rec. Temp. <u>159 F @ 9588</u>	
Equip. Location <u>582 HOBBS</u>		Recorded By <u>J MOUNT</u>		Witnessed By <u>MAY/The Count</u>		B. MAY	

True Vertical Depth

Service Ticket No.: <u>3670289</u>		API Serial No.: <u>30-015-33931</u>		PGM Version:			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES				RESISTIVITY SCALE CHANGES			
Date Sample No.		Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth - Driller							
Type Fluid							
in Hole							
Dens. Visc.							
Ph Fluid Loss							
Source of Sample		RESISTIVITY EQUIPMENT DATA					
Rm @ Meas. Temp.	@	0.104 @ 70 F	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Rmf @ Meas. Temp.	@	0.088 @ 70 F					
Rmc @ Meas. Temp.	@	0.132 @ 70 F					
Source Rmf Rmc		CALC. CALC.					
Rm @ BHT	@	0.045 @ 171 F					
Rmf @ BHT	@	0.038 @ 171 F					
Rmc @ BHT	@	0.057 @ 171 F					
EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	109021WH	Serial No.		Serial No.	AD44YL	Serial No.	108772YL
Model No.	CSNGDT	Model No.		Model No.	SDL_DA	Model No.	DSNT-A
Diameter	3.625"	No. of Cent.		Diameter	4.50"	Diameter	3.625"
Detector Model No.	T102-A	Spacing		Log Type	GAM_GAM	Log Type	NEU_NEU
Type	SCINT			Source Type	Cs137	Source Type	Am241Be
Length	12"	LSA [Y/N]		Serial No.	2549GW	Serial No.	DSN-90
Distance to Source	16'	FWDA [Y/N]		Strength	1.5Ci	Strength	18.5Ci



7900
TVD

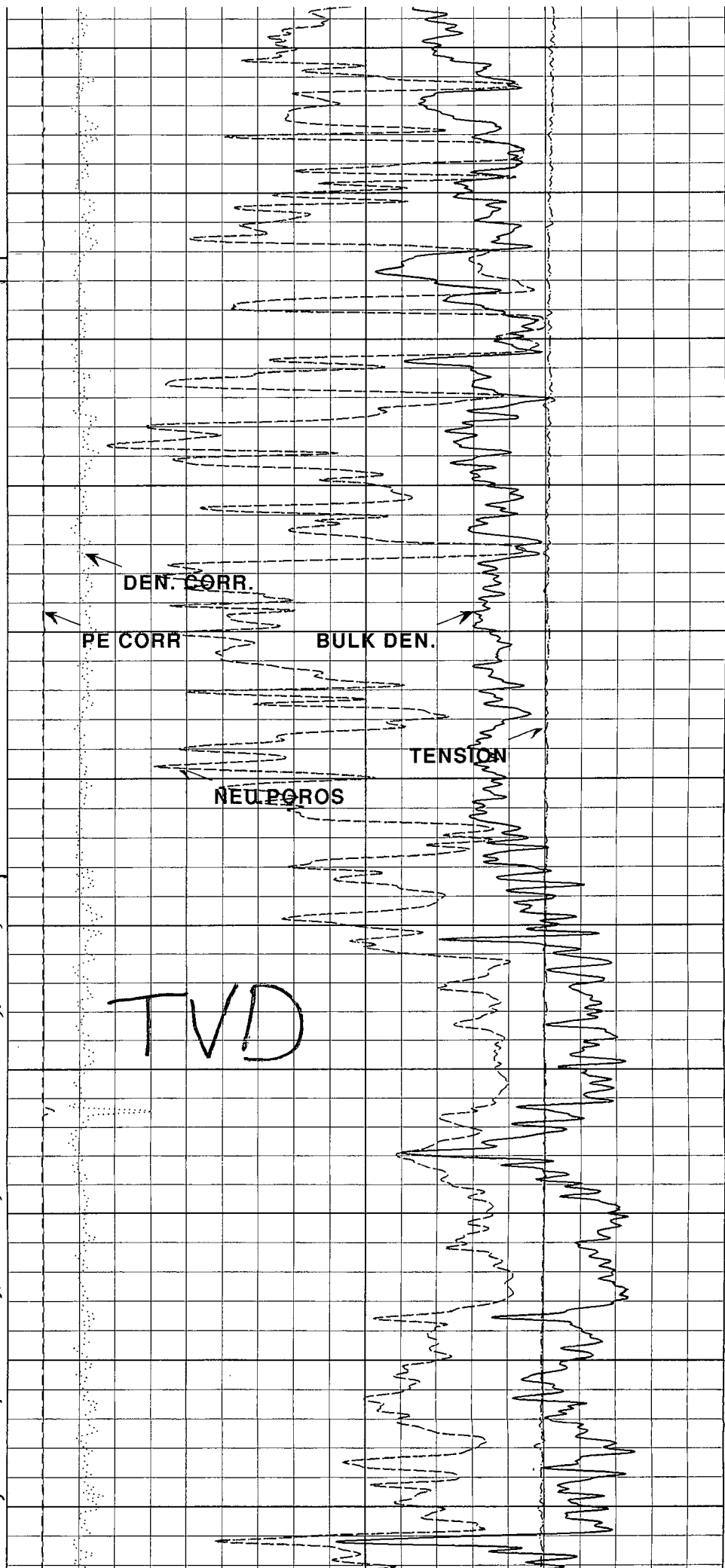
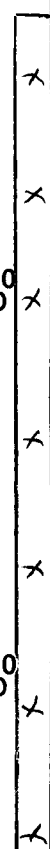


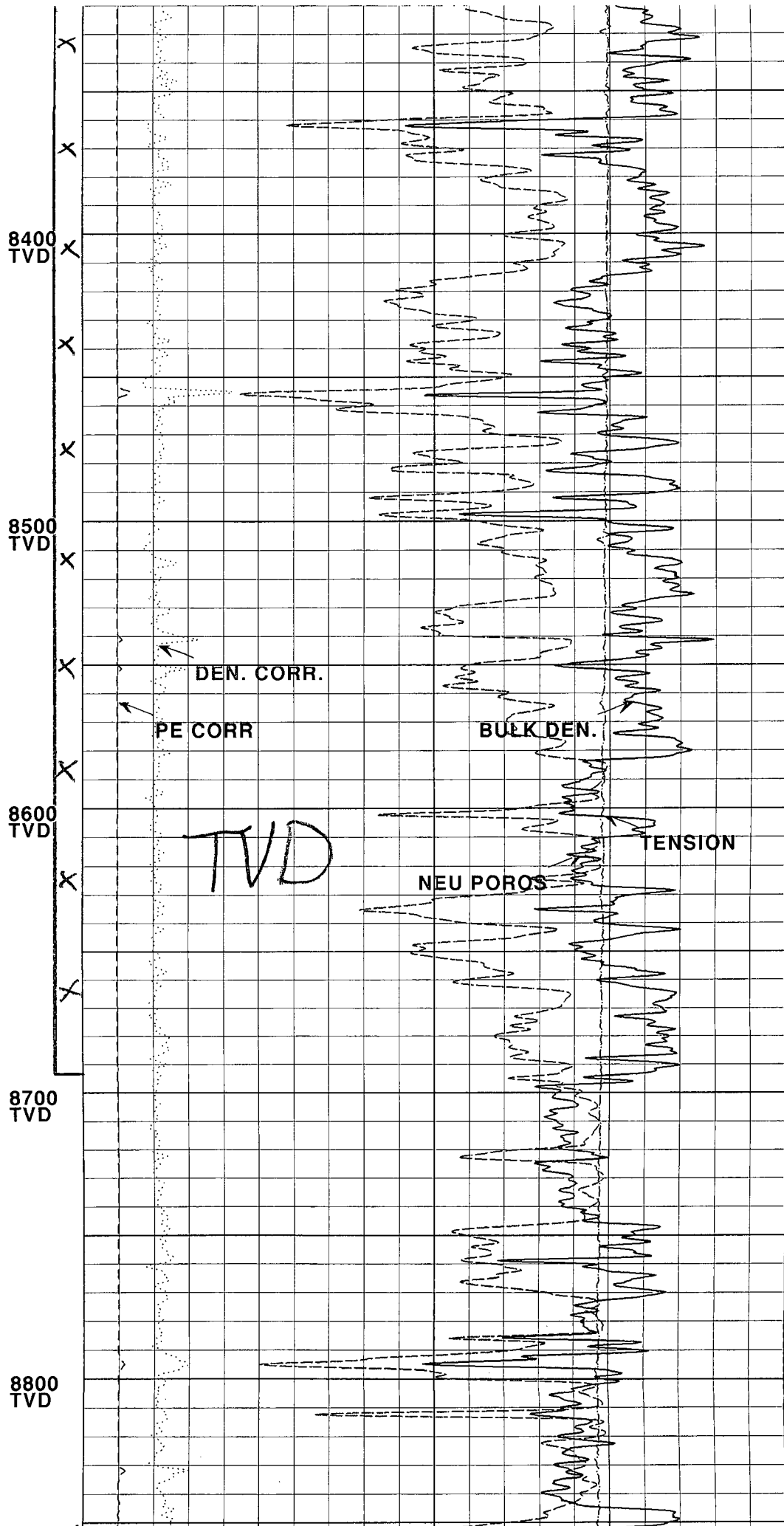
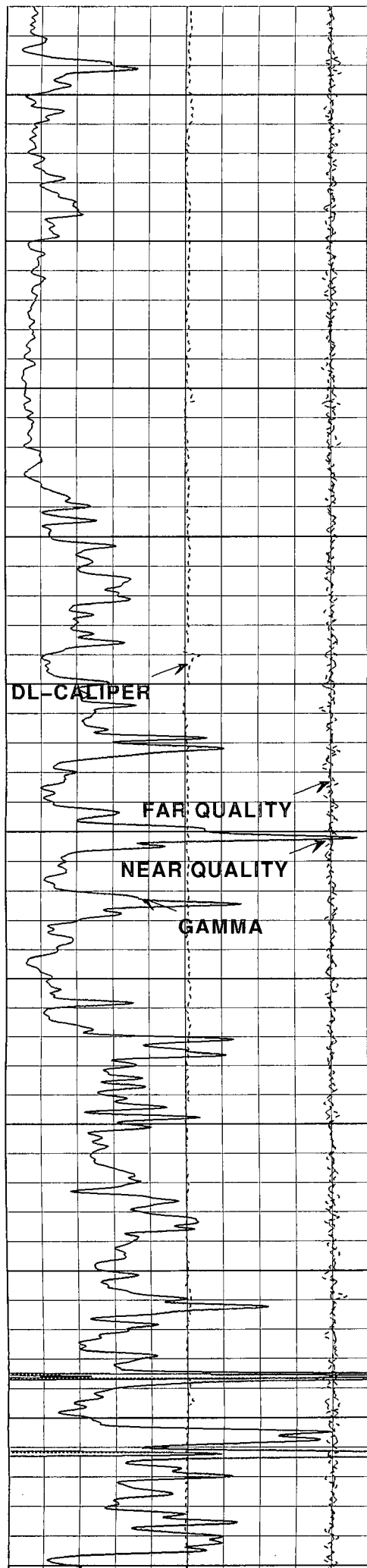
8000
TVD

8100
TVD

8200
TVD

8300
TVD





XI.

**Fresh Water Well
Water Analysis**

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

COMPANY Marbob

REPORT W04-073
DATE May 7, 2004
DISTRICT Hobbs

SUBMITTED BY

Fresh Water Well Unit 5 - Sec. 3 - 21s - 25e

WELL Evans Well 35 Queen Rd. DEPTH _____ FORMATION _____
COUNTY _____ FIELD _____ SOURCE _____

SAMPLE

Sample Temp.	<u>66</u> °F	_____ °F	_____ °F	_____ °F
RESISTIVITY	<u>7.71</u>	_____	_____	_____
SPECIFIC GR.	<u>1.001</u>	_____	_____	_____
pH	<u>7.28</u>	_____	_____	_____
CALCIUM	<u>450</u> mpl	_____ mpl	_____ mpl	_____ mpl
MAGNESIUM	<u>300</u> mpl	_____ mpl	_____ mpl	_____ mpl
CHLORIDE	<u>53</u> mpl	_____ mpl	_____ mpl	_____ mpl
SULFATES	<u>light</u> mpl	_____ mpl	_____ mpl	_____ mpl
BICARBONATES	<u>31</u> mpl	_____ mpl	_____ mpl	_____ mpl
SOLUBLE IRON	<u>0</u> mpl	_____ mpl	_____ mpl	_____ mpl
KCL	<u>Negative</u>	_____	_____	_____
Sodium	_____ mpl	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
TDS	_____ mpl	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
OIL GRAVITY	_____ @ _____ °F	_____ @ _____ °F	_____ @ _____ °F	_____ @ _____ °F

REMARKS

MPL = Milligrams per liter

Resitivity measured in: Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management: it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST: MA/JT

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

COMPANY Marbob Energy REPORT W04-069
DATE May 6, 2004
DISTRICT Hobbs

SUBMITTED BY Pecos River Water Sample

WELL Pecos River Below Brantley DEPTH _____ FORMATION _____
COUNTY _____ FIELD _____ SOURCE _____

SAMPLE	_____	_____	_____	_____
Sample Temp.	<u>74</u> °F	_____ °F	_____ °F	_____ °F
RESISTIVITY	<u>1.273</u>	_____	_____	_____
SPECIFIC GR.	<u>1.003</u>	_____	_____	_____
pH	<u>7.68</u>	_____	_____	_____
CALCIUM	<u>750</u> mpl	_____ mpl	_____ mpl	_____ mpl
MAGNESIUM	<u>690</u> mpl	_____ mpl	_____ mpl	_____ mpl
CHLORIDE	<u>1,474</u> mpl	_____ mpl	_____ mpl	_____ mpl
SULFATES	<u>heavy</u> mpl	_____ mpl	_____ mpl	_____ mpl
BICARBONATES	<u>31</u> mpl	_____ mpl	_____ mpl	_____ mpl
SOLUBLE IRON	<u>0</u> mpl	_____ mpl	_____ mpl	_____ mpl
KCL	<u>Negative</u>	_____	_____	_____
Sodium	_____ mpl	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
TDS	_____ mpl	<u>0</u> mpl	<u>0</u> mpl	<u>0</u> mpl
OIL GRAVITY	_____ @ _____ °F	_____ @ _____ °F	_____ @ _____ °F	_____ @ _____ °F

REMARKS _____

MPL = Milligrams per liter
Resitivity measured in: Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management: it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST: MA/JT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

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

2. Name of Operator **MARBOB ENERGY CORPORATION**

3a. Address
P O BOX 227, ARTESIA, NM 88211-0227

3b. Phone No. (include area code)
505-748-3303

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEC. 3-T21S-R25E, UNIT A
940 FNL 791 FEL, NE/4NE/4**

5. Lease Serial No.

NMNM108025

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

DOUBLE TROUBLE FED COM #1

9. API Well No.

30-015-33931

10. Field and Pool, or Exploratory Area
SPRINGS; MORROW

11. County or Parish, State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

MARBOB ENERGY CORPORATION PROPOSES TO CONVERT THE DOUBLE TROUBLE FEDERAL COM NO. 1 TO WATER DISPOSAL SERVICE.

MARBOB ALSO REQUESTS TO CHANGE THE WELL NAME TO: DOUBLE TROUBLE SWD NO. 1

SEE ATTACHED APPLICATION AND SUPPORTING DOCUMENTS.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

BRIAN COLLINS

Title **ENGINEER**

Signature

Brian Collins

Date

12 Dec 07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____

Title

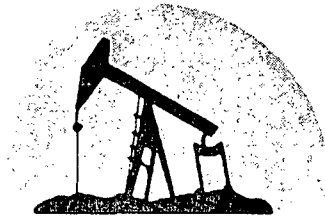
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



marbob
energy corporation

December 12, 2007

Artesia Daily Press
P. O. Box 190
Artesia, NM 88211-0190

Re: Legal Notice
Water Disposal Well

Gentlemen:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

Please run this notice and return the proof of notice to the undersigned at Marbob Energy Corporation, P. O. Box 227, Artesia, NM 88211-0227.

Sincerely,

Brian Collins
Petroleum Engineer

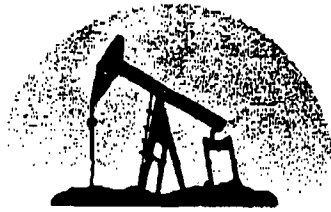
BC/dlw

enclosure

ARTESIA DAILY PRESS
LEGAL NOTICES

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico, 88211-0227, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Double Trouble SWD No. 1 is located 940' FNL 791' FEL (surface location), 791' FNL 1860' FWL (bottom hole location), Section 3, Township 21 South, Range 25 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the and Upper Penn formations. The disposal water will be injected into the Wolfcamp and Upper Penn formation at a depth of 7922' - 8693' at a maximum surface pressure of 1584 psi and a maximum rate of 20,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 505-748-3303.

Published in the Artesia Daily Press, Artesia, New Mexico
_____, 2007.



marbob
energy corporation

FAX TRANSMITTAL SHEET

DATE: 12/28/07

TO: Will Jones

FAX #: 505-476-3462

FROM: Debbie W

TOTAL # OF PAGES (INCLUDING COVER SHEET): 2

COMMENTS: Affidavit of Publication
RE: Double Traverse SWD

IF YOU HAVE ANY TROUBLE RECEIVING THIS FAX, PLEASE CONTACT ME.

PHONE: 505/748-3303

FAX: 505/746-2523

Affidavit of Publication

NO. 20005

STATE OF NEW MEXICO

County of Eddy:

GARY D. SCOTT being duly

sworn, says: That he is the PUBLISHER of The

Artesia Daily Press, a daily newspaper of general

circulation, published in English at Artesia, said county

and county and state, and that the here to attached

Legal Notice

was published in a regular and entire issue of the said

Artesia Daily Press, a daily newspaper duly qualified

for that purpose within the meaning of Chapter 167 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive week/days on the same

day as follows:

First Publication December 18, 2007

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn to before me this

30th Day December 2007

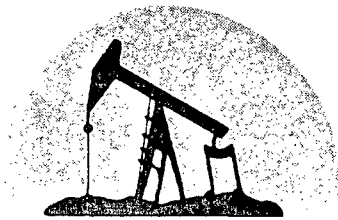
Amanda K. Lamb
Notary Public, Eddy County, New Mexico

My Commission expires April 5, 2011

Copy of Publication:

LEGAL NOTICE Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico, 88211-0227, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Double Trouble SWD No. 1 is located 940' FNL 791' FEL (surface location), 791' FNL 1860' FWL (bottom hole location), Section 3, Township 21 South, Range 25 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Upper Penn formations. The disposal water will be injected into the Wolfcamp and Upper Penn formations at a depth of 7922'-8693' at a maximum surface pressure of 1584 psi and a maximum rate of 20,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 505-748-3303.

Published in the Artesia Daily Press, Artesia, N.M. December 18, 2007.
Legal 20005



marbob
energy corporation

December 12, 2007

Devon Energy Production Company, LP
20 N. Broadway #1500
Oklahoma City, OK 73102

Re: Application to Inject
Double Trouble SWD #1
Township 21 South, Range 25 East, NMPM
Section 3: 940 FNL 791 FEL, Unit A
Eddy County, New Mexico

Gentlemen:

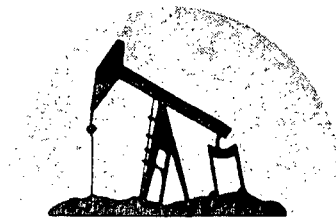
Enclosed for your review is a copy of Marbob Energy Corporation's application for Authorization to Inject. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw
enclosure



marbob
energy corporation

December 12, 2007

Featherstone Development Corporation
1801 W. 2nd St.
Roswell, NM 88201

Re: Application to Inject
Double Trouble SWD #1
Township 21 South, Range 25 East, NMPM
Section 3: 940 FNL 791 FEL, Unit A
Eddy County, New Mexico

Gentlemen:

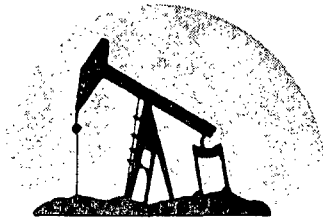
Enclosed for your review is a copy of Marbob Energy Corporation's application for Authorization to Inject. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw
enclosure



marbob
energy corporation

December 12, 2007

Yates Petroleum Corporation
105 S. 4th St.
Artesia, NM 88210

Re: Application to Inject
Double Trouble SWD #1
Township 21 South, Range 25 East, NMPM
Section 3: 940 FNL 791 FEL, Unit A
Eddy County, New Mexico

Gentlemen:

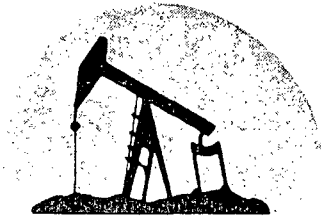
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Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw
enclosure



marbob
energy corporation

December 12, 2007

Nadel & Gussman, LLC
3200 1st Place, Twr #3200
Tulsa, OK 74103

Re: Application to Inject
Double Trouble SWD #1
Township 21 South, Range 25 East, NMPM
Section 3: 940 FNL 791 FEL, Unit A
Eddy County, New Mexico

Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application for Authorization to Inject. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw
enclosure



December 12, 2007

David H. Arrington
P. O. Box 2071
Midland, TX 79702

Re: Application to Inject
Double Trouble SWD #1
Township 21 South, Range 25 East, NMPM
Section 3: 940 FNL 791 FEL, Unit A
Eddy County, New Mexico

Gentlemen:

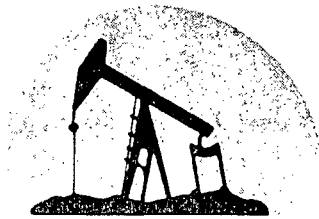
Enclosed for your review is a copy of Marbob Energy Corporation's application for Authorization to Inject. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw
enclosure



marbob
energy corporation

December 12, 2007

Bureau of Land Management
2909 W. 2nd St.
Roswell, NM 88201

Re: Application to Inject
Double Trouble SWD #1
Township 21 South, Range 25 East, NMPM
Section 3: 940 FNL 791 FEL, Unit A
Eddy County, New Mexico

Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application for Authorization to Inject. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw
enclosure

Jones, William V., EMNRD

From: Debora Wilbourn [geology@marbob.com]
Sent: Friday, December 14, 2007 3:04 PM
To: Jones, William V., EMNRD
Subject: Double Trouble SWD
Attachments: Certified Mail Receipts.pdf

Will,

Here are the certified mail receipts for the referenced SWD application.

Deb

Debora L. Wilbourn
GeoTech
Marbob Energy Corporation
505-748-3303
geology@marbob.com

This inbound email has been scanned by the MessageLabs Email Security System.

12/14/2007

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Total Postage & Fees	\$

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Sent To: **FEATHERSTONE DEVELOPMENT CORP**
 1801 W 2ND ST
 ROSWELL NM 88201
 City, State, ZIP+4
 DBL TRBL - DW

PS Form 3800, June 2002 See Reverse for Instructions

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To: **DEVON ENERGY PRODUCTION CO**
 20 N BROADWAY #1500
 OKLAHOMA CITY OK 73102
 City, State, ZIP+4
 DBL TRBL - DW

PS Form 3800, June 2002 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To: **YATES PETROLEUM CORP**
 105 S 4TH ST
 ARTESIA NM 88210
 City, State, ZIP+4
 DBL TRBL - DW

PS Form 3800, June 2002 See Reverse for Instructions

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To: **DAVID H ARRINGTON**
 P O BOX 2071
 MIDLAND TX 79702
 City, State, ZIP+4
 DBL TRBL - DW

PS Form 3800, June 2002 See Reverse for Instructions

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Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To: **BUREAU OF LAND MANAGEMENT**
 2909 W 2ND ST
 ROSWELL NM 88201
 City, State, ZIP+4
 DBL TRBL - DW

PS Form 3800, June 2002 See Reverse for Instructions

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To: **NADEL & GUSSMAN LLC**
 3200 1ST PLACE TWR #3200
 TULSA OK 74103
 City, State, ZIP+4
 DBL TRBL - DW

PS Form 3800, June 2002 See Reverse for Instructions

SWD Order Number 1110 Dates: Division Approved _____ District Approved _____Well Name/Num: DOUBLE TROUBLE SWD #1 Date Spudded: 2005API Num: (30-) 015-33931 County: EDDYFootages: SHL 945 FNL 791 FEL Sec 3 Tsp 21S Rge 25EOperator Name: Marble Energy Corp. Contact Brian CollinsOperator Address: P.O. BOX 227 Artesia NM 88211-0227Current Status of Well: _____ Planned Work: _____ Inj. Tubing Size: 3 1/2 @ 2525

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	12 1/4 9 5/8	1693'	750	CIRC after 1" wash
Intermediate	8 3/4 7"	9608'	1550 (150+1250)	CIRC
Production		DVC 3602'		
Last DV Tool				
Open Hole Liner	6 1/8 4 1/2	9500-11320	175 (DVC 9579)	9579
Plug Back Depth		TD=11320		

Diagrams Included (Y/N): Before Conversion ☒ After Conversion ☒

Checks (Y/N): Well File Reviewed _____ ELogs in Imaging _____

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef	NW EDGE - Reef Protected		
Cliff House, Etc.	2 miles west of PECOS RIVER		
Formation Above	7200 = 3A BS SS.		
Top Inj Interval	7922-7930	WC	1584 PSI Max. WHIP
Bottom Inj Interval	8133-8693	UPPER Perm	NO Open Hole (Y/N)
Formation Below			1/2 Deviated Hole (Y/N)

"5" Curve well
Vertical FROM (Canyon → TD)
8050' TOP CISO / Canyon

Fresh Water: Depths: 0-1500 Wells (Y/N) yes-1 Analysis Included (Y/N) yes Affirmative Statement ☒Salt Water Analysis: Injection Zone (Y/N/NA) _____ Disposition (Y/N/NA) _____ Types: upper PermNotice: Newspaper (Y/N) ☒ Surface Owner BOLM Mineral Owner(s) _____Other Affected Parties: DEVON, Foothill, Yata, Nadel Gsm, D. ArroyoAOR/Repairs: NumActiveWells 0 Repairs? — Producing in Injection Interval in AOR NOAOR Num of P&A Wells 2 Repairs? — Diagrams Included? — RBDMS Updated (Y/N) _____Well Table Adequate (Y/N) yes AOR STRs: Sec _____ Tsp _____ Rge _____ UIC Form Completed (Y/N) _____

New AOR Table Filename _____ Sec _____ Tsp _____ Rge _____ This Form completed _____

Conditions of Approval: _____ Sec _____ Tsp _____ Rge _____ Data Request Sent _____

S. Tatum on BS., upper WC (oil or gas)

Bore SR 4500-4700 Tested in other well

AOR Required Work: _____

Required Work to this Well: _____

14049 OGRW Rule 40 OK

MD = 8570-9340

State of New Mexico

DISTRICT I

1825 N. FRENCH DR., BOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

DISTRICT III

1000 Rio Braxos 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	Pool Code 85635	Pool Name SPRINGS MORROW
Property Code	Property Name DOUBLE TROUBLE FEDERAL	Well Number 1
GRID No. 14049	Operator Name MARBOB ENERGY CORPORATION	Elevation 3298'

Surface Location

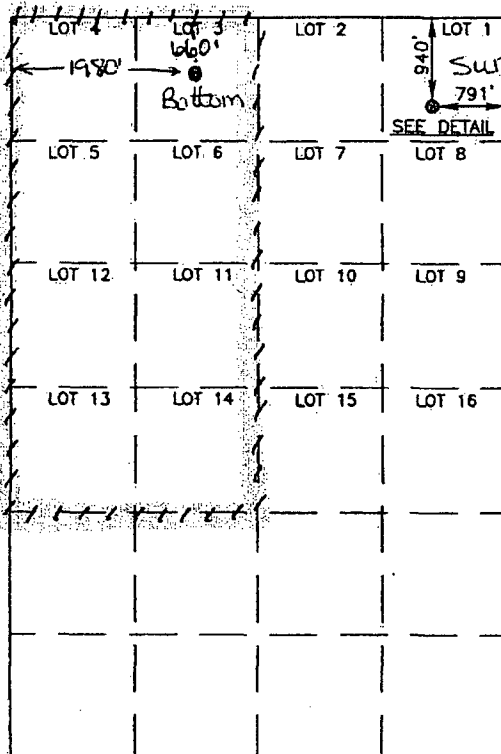
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	3	21-S	25-E		940	NORTH	791	EAST	EDDY

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
3	3	21S	25E		660	North	1980	West	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
298			

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

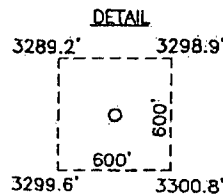


SCALE - 1"=2000'

GEODETIC COORDINATES
NAD 27 NME

Y=552835.3 N
X=486701.7 E

LAT.=32°31'11.45" N
LONG.=104°22'35.32" W



OPERATOR CERTIFICATION

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

Signature

Melanie J. Parker

Printed Name

Land Department

Title

10/22/2004

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.

OCTOBER 5, 2004

Date Surveyed

Signature

Professional Surveyor

NEW MEXICO

REGISTERED PROFESSIONAL SURVEYOR

10/16/04

04.11.1291

Certificate No. GARY E. ZIMMERMAN

12841

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

Artesia, NM 88210

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

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

2. Name of Operator MARBOB ENERGY CORPORATION

3a. Address P O BOX 227

ARTESIA, NM 88211-0227

3b. Phone No. (include area code)

505-748-3303

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 3-T21S-R25E, LOT 1

940 FNL 791 FEL, NE/4NE/4

5. Lease Serial No.

NMNM108025

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No

DOUBLE TROUBLE FEDERAL COM #1

API Well No.

30-015-33931

10. Field and Pool, or Exploratory Area

SPRINGS MORROW

11. County or Parish, State

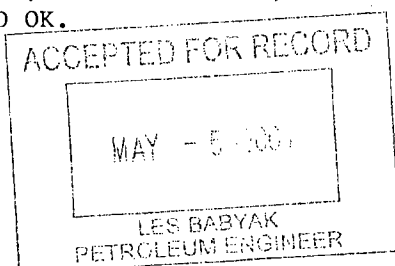
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>SPUD CSG/CMT</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

SPUD WELL @12:30 PM ON 03/26/05. DRLD 12 1/4" HOLE TO 1693' @2:45 PM ON 03/29/05. RAN 39 JTS (1698') 9 5/8" 36# J-55 STC CSG TO 1693'. CMTD W/400 SX H/L & 250 SX P+, DID NOT CIRC. RAN TEMP SURVEY - TOC @40'. TAG @48' W/1", PUMP 100 SX P+, CIRC 40 SX TO PIT. WOC 18 HRS, TSTD CSG TO 600# F/30 MIN - HELD OK.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

DEBORA L. WILBOURN

Title GEOTECH

Signature

Date 05/03/05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

N.M. Oil Cons. Div-Dist. 2
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1301 W. Grand Avenue
Artesia, NM 88210FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator MARBOB ENERGY CORPORATION
3a. Address P O BOX 227
ARTESIA, NM 88211-0227
3b. Phone No. (include area code) 505-748-3303
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC. 3-T21S-R25E, LOT 1
940 FNL 791 FEL, NE/4NE/4

5. Lease Serial No.
NMNM108025
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No.
DOUBLE TROUBLE FEDERAL COM #1
9. API Well No.
30-015-33931
10. Field and Pool, or Exploratory Area
SPRINGS MORROW
11. County or Parish, State
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other TD CMT/CSG
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

TD WELL @5:30 PM ON 05/10/05. DRLD 6 1/8" HOLE TO 11320'. RAN 282 JTS (11331') 4 1/2" 11.6# P-110 CSG TO 11321'. CMTD W/175 SX SUPER H, CIRC 57 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.

ACCEPTED FOR RECORD

MAY 20 2005

LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

DEBORA L. WILBOURN

Title GEOTECH

Signature

Date 05/17/05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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Title

Date

Office

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(Instructions on page 2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

Artesia, NM 88210

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

RECEIVED

2. Name of Operator

MARBOB ENERGY CORPORATION

MAY 06 2005

3a. Address

P O BOX 227

3b. Phone No. (include area code)

ARTESIA, NM 88211-0227

505-748-3303

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 3-T21S-R25E, LOT 1

940 FNL 791 FEL, NE/4NE/4

5. Lease Serial No.

NMNM108025

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

DOUBLE TROUBLE FEDERAL COM #1

9. API Well No.

30-015-33931

10. Field and Pool, or Exploratory Area

SPRINGS MORROW

11. County or Parish, State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Acidize

☐

Alter Casing

☐

Casing Repair

☐

Change Plans

☐

Convert to Injection

☐

Deepen

☐

Fracture Treat

☐

New Construction

☐

Plug and Abandon

☐

Plug Back

☐

Production (Start/Resume)

☐

Reclamation

☐

Recomplete

☐

Temporarily Abandon

☐

Water Disposal

☐

Water Shut-Off

☐

Well Integrity

☒Other Intmd csq/cont

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

TD 8 3/4" HOLE @8:30 PM ON 04/28/05. RAN 74 JTS (3238') 7" 23# L-80 CSG & 146 JTS (6370') P-110 CSG TO 9608'. CMTD 1ST STG W/150 SX SUPER, CIRC 15 SX TO PIT. CMTD 2ND STG 2/1200 SX INERFILL H, TAILED IN W/200 SX H, PD @7:00 AM ON 05/02/05, CIRC 157 SX TO PIT. WOC 18 HRS, TSTD CSG TO 1500# F/30 MIN.

ACCEPTED FOR RECORD

MAY - 5 - 2005

LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

DEBORA L. WILBOURN

Title GEOTECH

Signature

Debora L. Wilbourn

Date 05/03/05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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Title

Date

Office

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(Instructions on page 2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side

AUG 24 2005
OCC-ARTESIA

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Serial No. NMNM108025
2. Name of Operator MARBOB ENERGY CORPORATION	6. If Indian, Allottee or Tribe Name
3a. Address PO BOX 227, ARTESIA, NM 88211-0227	7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) (505) 748-3303	8. Well Name and No. DOUBLE TROUBLE FEDERAL COM #1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 940 FNL 791 FEL, SEC. 3-T21S-R25E, LOT 1	9. API Well No. 30-015-33931
	10. Field and Pool, or Exploratory Area SPRINGS; UPPER PENN
	11. County or Parish, State EDDY CO., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

RECOMPLETED IN THE CISCO (UPPER PENN) AS FOLLOWS:

7/26/05 - SET CIBP + 35' CMT @ 10700'. CUT 4 1/2" CSG OFF @ 9500'.
7/27/05 - POOH W/ 221 JTS 4 1/2" CSG.
7/28/05 - SET CIBP + 35' CMT @ 9450'. PERF THE CISCT @ 8874' - 8880' (28 SHOTS).
7/29/05 - ACDZ PERFS W/ 1000 GAL NEFE 20% HCL ACID. SWAB/FLOW TEST.
8/1/05 - PERF THE CISCO @ 8780' - 8808' (56 SHOTS). ACDZ PERFS W/ 2500 GAL NEFE 20% HCL.

ACCEPTED FOR RECORD

AUG 22 2005

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

DIANA J. BRIGGS

Title PRODUCTION ANALYST

Signature

Date AUGUST 9, 2005

LES BABYAK
PETROLEUM ENGINEER

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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Office

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(Instructions on reverse)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N.M. Oil Cons. Div. Dist. 2
1501 W. Grand Avenue
Artesia, NM 88210

SUBMIT IN DUPLICATE*

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995
LEASE DESIGNATION AND SERIAL NO.

NNNM108025

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		OIL WELL	GAS WELL <input checked="" type="checkbox"/>	DRY	Other	7. UNIT AGREEMENT NAME	
b. TYPE OF COMPLETION:		NEW WELL	WORK OVER	DEEP-EN	PLUG BACK <input checked="" type="checkbox"/>	DIFF. RESVR.	Other
2. NAME OF OPERATOR MARBOB ENERGY CORPORATION							
3. ADDRESS AND TELEPHONE NO. PO BOX 227, ARTESIA, NM 88211-0227 (505) 748-3303							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 940 FNL 791 FEL, LOT 1 At top prod. interval reported below At total depth 771 FNL 1878 FWL, LOT 3							
14. PERMIT NO.				DATE ISSUED AUG 17 2005		12. COUNTY OR PARISH EDDY	
15. DATE SPUDDED 3/26/05				16. DATE T.D. REACHED 5/10/05		13. STATE NM	
17. DATE COMPL. (Ready to prod.) 8/3/05				18. ELEVATIONS (DF, RKB, RT, GE, ETC.) 3298' GL		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 11320'		21. PLUG, BACK T.D., MD & TVD 9415'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 0 - 11320'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* 8780' - 8880' CISCO (UPPER PENN)						25. WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS RUN NONE						27. WAS WELL CORED NO	
28. EXISTING CASING RECORD (Report all strings set in well)							
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD		AMOUNT PULLED	
9 5/8" J55	36#	1693'	12 1/4"	650 SX, TOC @ 40'		NONE	
7" L80/P110	23#	9608'	8 3/4"	1550 SX, CIRC		NONE	
4 1/2" P110	11.6#	11321'	6 1/8"	175 SX, CIRC		NONE	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	9004'	
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
8874' - 8880' (28 SHOTS)				DEPTH INTERVAL (MD)			
8780' - 8808' (56 SHOTS)				AMOUNT AND KIND OF MATERIAL USED			
				8874'-8880' ACDZ W/ 1000 GAL NEFE 20% HCL			
				8780'-8808' ACDZ W/ 2500 GAL NEFE 20% HCL			
33. PRODUCTION							
DATE FIRST PRODUCTION 8/4/05		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) PUMPING				WELL STATUS (Producing or shut-in) PROD	
DATE OF TEST 8/5/05	HOURS TESTED 24	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL—BBL. 0	GAS—MCF. 1613	WATER—BBL. 981	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD							
35. LIST OF ATTACHMENTS NONE							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED 		TITLE PRODUCTION ANALYST				DATE 8/9/05	

*(See Instructions and Spaces for Additional Data on Reverse Side)

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