

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOil Cons.
N.M. Div-Dist. 2
801 W. Grand Avenue
Artesia, NM 88210FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT

Lease Serial No.
NM-NM81220

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other			6. If Indian, Allottee or Tribe Name N/A		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other _____			7. Unit or CA Agreement Name and no.		
2. Name of Operator Devon Energy Production Company, L.P.			Robert Elliott Operations Engr Advisor		
3. Address 20 N. Broadway, suite 1500, OKC, OK 73102			3.a Phone No. (Include area code) (405)228-8609		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface 810' FSL & 350' FEL, Unit P, Section 8-T22S-R24E, Eddy Cnty, NM At top prod. interval reported below 886' FSL & 793' FEL, Unit 9, Section 8-T22S-R24E At total depth 908' FSL & 834' FEL, Unit P, Section 8-T22S-R24E					
14. Date Spudded 06/08/2003		15. Date T.D. Reached 07/04/2003		16. Date Completed ☐ D & A ☒ Ready to Prod. 07/31/2003	
18. Total Depth: MD 8520' TVD 8478'		19. Plug Back T.D.: MD 8413' TVD 8455'		20. Depth Bridge Plug Set: MD TVD	
21. Type of Electric & Other Mechanical Logs Run (Submit copy of each) Platform Express Three Detector Litho-Density Compensated Neutron/NGT, Hi-Res Laterolog Array MCFL/NGT and Cement Bond logs			22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit copy)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	9 5/8" K55	36#	surface	1581'		item 32		surface	
8 3/4"	7" J55 & HCL-80	23#	surface	8502'	2996', 7886'	see item 32		115' CBL	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	ESP 8193' EOM							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Cisco Reef	7988'	8299'	7840-8176'	.41" EHD	126	open
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7840-8176'	27,500 gals 20% HCl + 265 BS

ACCEPTED FOR RECORD

MAY 17 2004

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8-1-03	8-12-03	24	→	493	672	2225	40 degs		ESP TD3000 downhole pumps
Choice Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→	493	672	2225	1363/1	Producing	

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Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

MAY 18 2004

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

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28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

BUREAU OF LAND MANAGEMENT
ROSWELL OFFICE

Producing

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

sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Cisco Reef	7988'	8299'	gas, oil, water	Glorietta/Yeso	2544'
				Bone Spring	3168'
				3rd Bone Spring	6821'
				Wolfcamp	7287'
				Upper Penn	7654'
				Cisco Reef	7988'
				TD	8520'

32. Additional remarks (include plugging procedure):

Cemented 9 5/8" casing: 401 sx 35/65 Poz C with yield 1.99 cf + 400 sx Class C with yield 1.32 cf.

Cemented 7" casing: 1st stage= 150 sx 15-61-11 Pozmix C, yield 1.59 cf; 2nd stage= 1000 sx 60-40 Pozmix C, yield 1.34 cf, + 50 sx Class H, yield 1.52 cf; 3rd stage= 475 sx 60-40 Pozmix C, yield 1.37 cf + 75 sx Class H, yield 1.52 cf.

33. Circle enclosed attachments:

- ☒ 1. Electrical/Mechanical Logs (1 full set req'd.)
 ☒ 2. Geological Report
 ☒ 3. DST Report
 ☒ 4. Directional Survey
☒ 5. Sundry Notice for plugging and cement verification
 ☒ 6. Core Analysis
 ☒ 7. Other- deviation survey

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Candace R. Graham

Title candi.graham@dv.com /Operations Tech II

Signature

Candace R. Graham

Date 05/12/2004

WELL NAME AND NUMBER Old Ranch Knoll 8 No.9
LOCATION Section 8, T22S, R24E, 810'FSL, 350'FEL, Eddy County
OPERATOR Devon Energy Production Company, L.P.
DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>3/4° @ 610'</u>	<u> </u>	<u> </u>
<u>1° @ 1012'</u>	<u> </u>	<u> </u>
<u>1-1/2° @ 1600'</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
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Drilling Contractor United Drilling, Inc.
By: George A. Aho
Title: Business Manager

Subscribed and sworn to before me this 18th day of June,
2003.

Carlene Martin
Notary Public - **Carlene Martin**

My Commission Expires: **10-04-04**

Chaves
County

New Mexico
State

(Give Unit, Section, Township and Range)

LEASE & WELL

OPERATOR

DEVON ENERGY PRODUCTION CO. L.P. 20 N. BROADWAY, SUITE # 1500

OKLAHOMA CITY, OK 73102-8260

DRILLING CONTRACTOR

NABORS DRILLING USA, LP

The Undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH DEGREES @ DEPTH DEGREES @ DEPTH DEGREES @ DEPTH

1 3/4 1864

1 2967

1 1/4 3470

3/4 3971

1 4506

1 1/4 5007

1 3/4 5507

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Drilling Contractor

Nabors Drilling USA, LP.

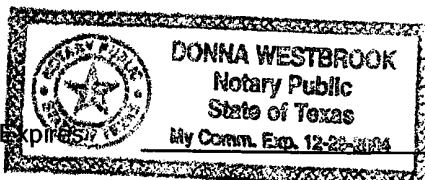
By

Don Nelson-District Drilling Superintendent

Subscribed and sworn to before me this 26th day of August, 2003

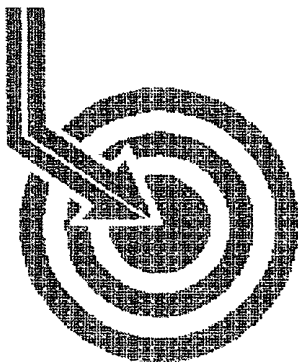
Notary Public

My Commision



MIDLAND

County TEXAS



Scientific Drilling

DEVON ENERGY

Field: Indian Basin
Site: Eddy County, NM
Well: Old Ranch Knoll 8 Fed. #9
Wellpath: VH - Job #32K0603331
Survey: 06/28/03

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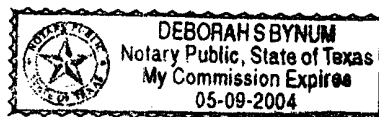
This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 21st of July, 2003.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling Survey Report

Company: DEVON ENERGY Field: Indian Basin Site: Eddy County, NM Well: Old Ranch Knoll 8 Fed. #9 Wellpath: VH - Job #32K0603331	Date: 7/21/2003 Co-ordinate(NE) Reference: Site: Eddy County, NM, True North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,264.54Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: 06/28/03 Company: Scientific Drilling Tool: Keeper, Keeper Gyro	Start Date: 6/28/2003 Engineer: Cary Coffee Tied-to: From Surface
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Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	1.64	35.81	100.0	-0.9	1.2	0.8	1.64	1.4	35.81
200.0	4.85	74.89	199.8	-6.1	3.4	5.8	3.72	6.7	59.26
300.0	4.49	111.57	299.5	-13.7	3.1	13.5	2.96	13.8	77.10
400.0	1.37	176.14	399.4	-17.2	0.5	17.2	4.09	17.2	88.49
500.0	0.69	195.44	499.4	-16.9	-1.3	17.1	0.75	17.2	94.40
600.0	0.59	233.75	599.4	-16.3	-2.2	16.5	0.43	16.7	97.58
700.0	1.61	187.16	699.3	-15.5	-3.9	16.0	1.28	16.4	103.73
800.0	0.47	267.72	799.3	-14.8	-5.3	15.4	1.60	16.3	109.04
900.0	0.88	272.59	899.3	-13.6	-5.3	14.2	0.42	15.1	110.43
1000.0	0.72	288.35	999.3	-12.3	-5.1	12.8	0.27	13.8	111.50
1100.0	0.62	300.33	1099.3	-11.3	-4.6	11.8	0.17	12.6	111.28
1200.0	1.24	296.27	1199.3	-9.9	-3.8	10.3	0.62	11.0	110.36
1300.0	1.92	297.48	1299.3	-7.6	-2.6	7.9	0.68	8.3	108.15
1400.0	1.62	309.50	1399.2	-5.2	-0.9	5.3	0.47	5.4	99.75
1500.0	2.04	300.95	1499.2	-2.8	0.9	2.7	0.50	2.8	71.32
1600.0	1.73	299.89	1599.1	-0.1	2.6	-0.2	0.32	2.6	356.57
1700.0	1.72	299.78	1699.1	2.4	4.1	-2.8	0.01	4.9	325.84
1800.0	1.71	298.39	1799.0	4.8	5.5	-5.4	0.04	7.7	315.78
1900.0	1.69	296.30	1899.0	7.3	6.9	-8.0	0.07	10.6	310.69
2000.0	1.57	285.03	1998.9	9.9	7.9	-10.7	0.34	13.3	306.54
2100.0	1.72	292.24	2098.9	12.5	8.8	-13.4	0.25	16.0	303.42
2200.0	1.56	290.00	2198.8	15.0	9.9	-16.0	0.17	18.8	301.57
2300.0	1.16	285.13	2298.0	17.2	10.6	-18.3	0.42	21.1	300.05
2400.0	1.30	277.23	2398.8	19.3	11.0	-20.4	0.22	23.2	298.32
2500.0	0.99	270.21	2498.8	21.2	11.1	-22.4	0.34	25.0	296.45
2600.0	0.86	261.46	2598.8	22.8	11.0	-24.0	0.19	26.4	294.68
2700.0	1.01	259.40	2698.7	24.5	10.8	-25.6	0.15	27.8	292.78
2800.0	0.89	255.64	2798.7	26.1	10.4	-27.2	0.13	29.1	290.91
2900.0	0.93	252.32	2898.7	27.7	10.0	-28.8	0.07	30.4	289.11
3000.0	0.65	240.67	2998.7	29.0	9.4	-30.0	0.32	31.5	287.45
3100.0	1.15	229.81	3098.7	30.3	8.5	-31.3	0.52	32.4	285.22
3200.0	0.93	236.61	3198.7	31.9	7.4	-32.7	0.25	33.6	282.77
3300.0	0.95	226.63	3298.7	33.2	6.4	-34.0	0.16	34.6	280.66
3400.0	1.32	215.12	3398.7	34.6	4.9	-35.3	0.43	35.6	277.90
3500.0	1.11	237.66	3498.6	36.3	3.4	-36.7	0.52	36.9	275.34
3600.0	1.18	225.74	3598.6	37.9	2.2	-38.3	0.25	38.4	273.28
3700.0	1.07	228.99	3698.6	39.5	0.9	-39.7	0.13	39.8	271.25
3800.0	0.95	226.98	3798.6	40.9	-0.3	-41.1	0.12	41.1	269.56
3900.0	0.88	236.21	3898.6	42.2	-1.3	-42.3	0.16	42.3	268.23
4000.0	0.93	237.80	3998.5	43.6	-2.2	-43.6	0.05	43.7	267.16
4100.0	1.11	233.65	4098.5	45.2	-3.2	-45.1	0.19	45.2	265.97
4200.0	0.90	233.93	4198.5	46.7	-4.2	-46.5	0.21	46.7	264.83
4300.0	1.13	266.00	4298.5	48.4	-4.7	-48.1	0.61	48.4	264.37
4400.0	1.14	269.67	4398.5	50.3	-4.8	-50.1	0.07	50.3	264.51
4500.0	1.39	272.08	4498.5	52.5	-4.8	-52.3	0.25	52.5	264.78
4600.0	1.14	278.47	4598.4	54.7	-4.6	-54.5	0.28	54.7	265.19
4700.0	1.20	263.82	4698.4	56.7	-4.6	-56.5	0.30	56.7	265.39
4800.0	1.18	268.67	4798.4	58.8	-4.7	-58.6	0.10	58.8	265.42

Scientific Drilling Survey Report

Company: DEVON ENERGY Field: Indian Basin Site: Eddy County, NM Well: Old Ranch Knoll 8 Fed. #9 Wellpath: VH - Job #32K0603331	Date: 7/21/2003 Co-ordinate(NE) Reference: Site: Eddy County, NM, True North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,264.54Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	1.06	262.11	4898.4	60.7	-4.8	-60.6	0.18	60.7	265.43
5000.0	0.92	256.29	4998.4	62.5	-5.2	-62.2	0.17	62.5	265.26
5100.0	1.03	253.37	5098.3	64.1	-5.6	-63.9	0.12	64.1	264.98
5200.0	2.82	219.51	5198.3	66.8	-7.8	-66.3	2.05	66.8	263.32
5300.0	1.09	266.93	5298.2	69.4	-9.7	-68.8	2.24	69.5	261.97
5400.0	1.35	275.40	5398.2	71.5	-9.7	-70.9	0.32	71.6	262.25
5500.0	1.82	280.31	5498.2	74.2	-9.3	-73.7	0.49	74.3	262.84
5600.0	1.50	274.15	5598.1	77.0	-8.9	-76.5	0.36	77.1	263.38
5700.0	1.66	270.47	5698.1	79.8	-8.8	-79.3	0.19	79.8	263.69
5800.0	1.97	280.06	5798.0	82.9	-8.5	-82.4	0.43	82.9	264.14
5854.0	1.31	297.45	5852.0	84.3	-8.0	-83.9	1.52	84.3	264.54



**Scientific
Drilling**

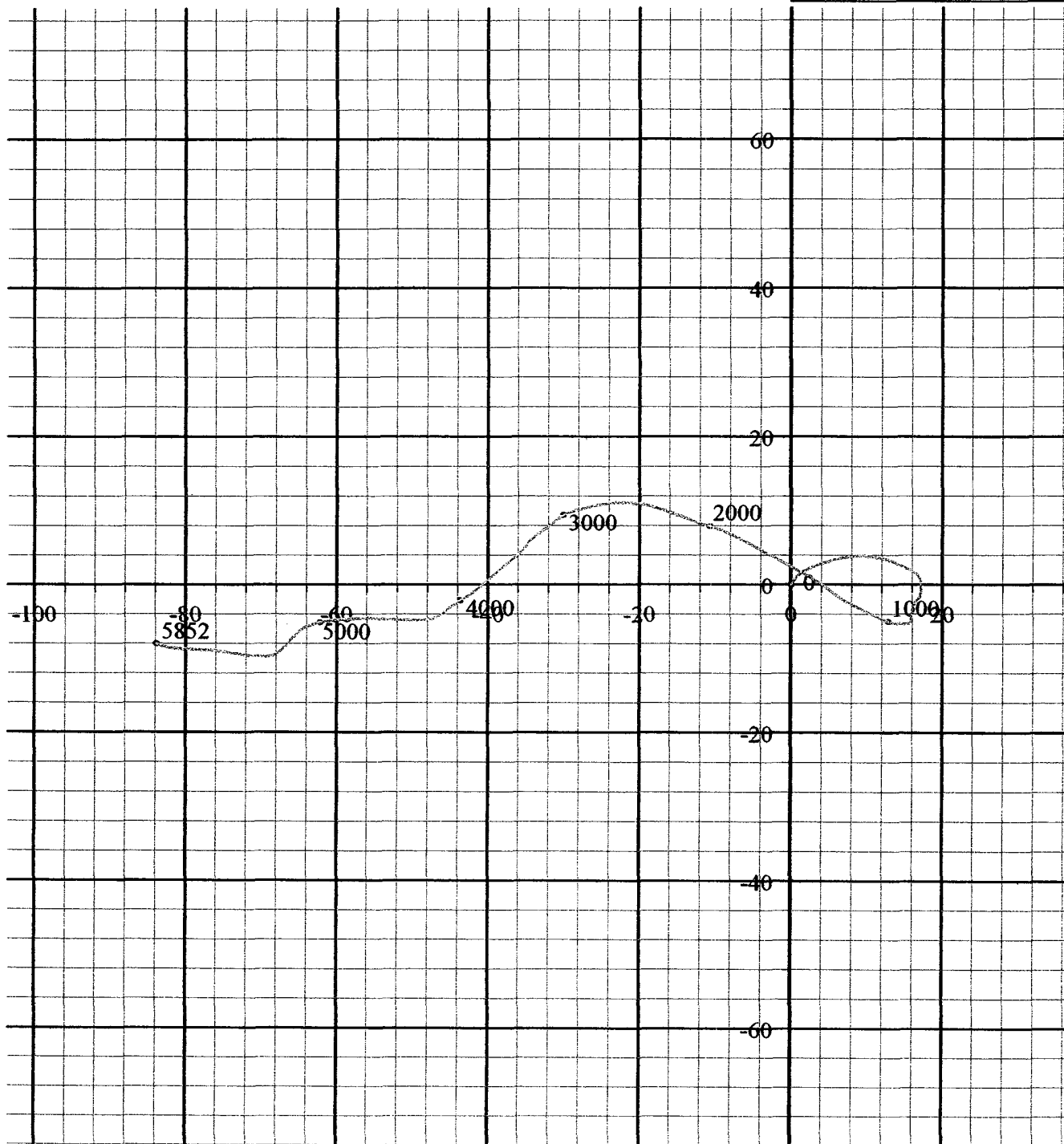
Field: Indian Basin
Site: Eddy County, NM
Well: Old Ranch Knoll 8 Fed. #9
Wellpath: VH - Job #32K0603331
Survey: 06/28/03



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 7/21/2003
Model: Wmm_95

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]

Deviation Summary

Legal Well Name:	OLD RANCH KNOLL 8 FED COM 9	Spud Date:	6/8/2003	S/T #	V.S. AZI (°)
Common Well Name:	OLD RANCH KNOLL 8 FED COM 9	Start:	5/22/2003	OH	275.57
Event Name:	ONSHORE ORIG DRLG	End:	8/12/2003		
Contractor Name:	NABORS DRILLING	Rig Release:	7/7/2003		
Rig Name:	NABORS	Rig Number:	347		
TMD: 8,520.00 (ft)	TVD: 8,477.76 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	0.00	0.00	0.00	NYN	0.00	0.00	0.00	0.00	0.00	0.00	
OH	610.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	1,012.00	1.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	1,600.00	1.50	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	1,864.00	1.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	2,368.00	1.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	2,967.00	1.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	3,470.00	1.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	3,971.00	0.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	4,506.00	1.00	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	5,007.00	1.25	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	5,509.00	1.75	0.00	NNN	0.00	0.00	0.00	0.00	0.00	0.00	INC
OH	5,800.00	1.97	280.47	NNN	0.00	0.00	0.00	0.00	0.00	0.00	GMS
OH	5,854.00	1.31	297.45	NYN	5,852.01	-8.01	-83.90	82.73	1.51	-1.22	GMS
OH	5,907.00	2.10	289.40	YNN	5,904.98	-7.40	-85.35	84.23	1.55	1.49	MWD
OH	5,970.00	1.90	286.10	YNN	5,967.95	-6.73	-87.45	86.38	0.37	-0.32	MWD
OH	6,002.00	2.00	286.60	YNN	5,999.93	-6.43	-88.49	87.45	0.32	0.31	MWD
OH	6,033.00	1.90	285.90	YNN	6,030.91	-6.13	-89.50	88.49	0.33	-0.32	MWD
OH	6,096.00	3.50	283.80	YNN	6,093.84	-5.39	-92.38	91.42	2.54	2.54	MWD
OH	6,128.00	3.50	286.00	YNN	6,125.78	-4.88	-94.26	93.34	0.42	0.00	MWD
OH	6,192.00	4.90	284.70	YNN	6,189.60	-3.65	-98.79	97.96	2.19	2.19	MWD
OH	6,255.00	4.40	290.40	YNN	6,252.40	-2.13	-103.65	102.96	1.08	-0.79	MWD
OH	6,319.00	5.80	284.80	YNN	6,316.14	-0.44	-109.08	108.52	2.32	2.19	MWD
OH	6,382.00	7.00	278.30	YNN	6,378.75	0.92	-115.96	115.50	2.22	1.90	MWD
OH	6,413.00	6.80	277.30	YNN	6,409.52	1.43	-119.65	119.22	0.75	-0.65	MWD
OH	6,476.00	7.20	278.50	YNN	6,472.06	2.49	-127.25	126.89	0.68	0.63	MWD
OH	6,538.00	8.60	282.30	YNN	6,533.47	4.05	-135.62	135.38	2.41	2.26	MWD
OH	6,601.00	9.00	286.40	YNN	6,595.72	6.44	-144.95	144.89	1.18	0.63	MWD

Deviation Summary

Legal Well Name: OLD RANCH KNOLL 8 FED COM 9					Spud Date: 6/8/2003					S/T #	V.S. AZI (°)	
Common Well Name: OLD RANCH KNOLL 8 FED COM 9					Start: 5/22/2003					OH	275.57	
Event Name: ONSHORE ORIG DRLG					End: 8/12/2003							
Contractor Name: NABORS DRILLING					Rig Release: 7/7/2003							
Rig Name: NABORS					Rig Number: 347							
TMD: 8,520.00 (ft)		TVD: 8,477.76 (ft)			Calculation Method: Minimum Curvature							
S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N/-S (ft)	E/-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type	
OH	6,664.00	10.00	283.90	YNN	6,657.86	9.15	-154.99	155.15	1.72	1.59	MWD	
OH	6,728.00	11.00	281.70	YNN	6,720.79	11.72	-166.36	166.72	1.68	1.56	MWD	
OH	6,790.00	11.80	278.00	YNN	6,781.56	13.80	-178.43	178.93	1.75	1.29	MWD	
OH	6,822.00	11.70	277.80	YNN	6,812.89	14.70	-184.89	185.44	0.34	-0.31	MWD	
OH	6,885.00	13.20	284.69	YNN	6,874.41	17.39	-198.18	198.93	3.35	2.38	MWD	
OH	6,916.00	13.30	280.30	YNN	6,904.59	18.93	-205.11	205.98	3.26	0.32	MWD	
OH	6,979.00	14.80	281.00	YNN	6,965.70	21.76	-220.14	221.21	2.40	2.38	MWD	
OH	7,042.00	16.50	280.30	YNN	7,026.37	24.89	-236.84	238.14	2.71	2.70	MWD	
OH	7,074.00	16.60	278.30	YNN	7,057.04	26.37	-245.83	247.23	1.81	0.31	MWD	
OH	7,106.00	16.20	278.30	YNN	7,087.74	27.67	-254.78	256.26	1.25	-1.25	MWD	
OH	7,137.00	16.00	279.70	YNN	7,117.52	29.01	-263.27	264.84	1.41	-0.65	MWD	
OH	7,168.00	15.70	279.30	YNN	7,147.34	30.41	-271.62	273.29	1.03	-0.97	MWD	
OH	7,200.00	15.90	279.10	YNN	7,178.14	31.80	-280.22	281.98	0.65	0.63	MWD	
OH	7,231.00	15.00	279.00	YNN	7,208.01	33.10	-288.37	290.22	2.90	-2.90	MWD	
OH	7,263.00	14.70	278.90	YNN	7,238.95	34.38	-296.47	298.41	0.94	-0.94	MWD	
OH	7,294.00	14.10	280.20	YNN	7,268.97	35.66	-304.08	306.10	2.20	-1.94	MWD	
OH	7,326.00	13.80	280.70	YNN	7,300.03	37.06	-311.66	313.79	1.01	-0.94	MWD	
OH	7,357.00	14.50	282.60	YNN	7,330.09	38.59	-319.08	321.32	2.71	2.26	MWD	
OH	7,388.00	13.80	283.50	YNN	7,360.15	40.30	-326.47	328.84	2.37	-2.26	MWD	
OH	7,425.00	12.20	283.90	YNN	7,396.20	42.27	-334.55	337.08	4.33	-4.32	MWD	
OH	7,488.00	13.20	279.80	YNN	7,457.66	45.09	-348.10	350.84	2.14	1.59	MWD	
OH	7,520.00	13.80	281.70	YNN	7,488.77	46.49	-355.44	358.27	2.33	1.88	MWD	
OH	7,582.00	13.10	283.80	YNN	7,549.07	49.66	-369.50	372.58	1.38	-1.13	MWD	
OH	7,614.00	12.50	284.50	YNN	7,580.28	51.39	-376.38	379.59	1.94	-1.88	MWD	
OH	7,645.00	12.00	285.30	YNN	7,610.57	53.09	-382.74	386.08	1.70	-1.61	MWD	
OH	7,708.00	11.30	284.40	YNN	7,672.27	56.35	-395.03	398.64	1.15	-1.11	MWD	
OH	7,771.00	10.90	286.20	YNN	7,734.09	59.55	-406.73	410.59	0.84	-0.63	MWD	
OH	7,833.00	10.10	289.80	YNN	7,795.06	63.02	-417.47	421.62	1.67	-1.29	MWD	

Deviation Summary

Legal Well Name:	OLD RANCH KNOLL 8 FED COM 9	Spud Date:	6/8/2003	S/T #	V.S. AZI (°)
Common Well Name:	OLD RANCH KNOLL 8 FED COM 9	Start:	5/22/2003	OH	275.57
Event Name:	ONSHORE ORIG DRLG	End:	8/12/2003		
Contractor Name:	NABORS DRILLING	Rig Release:	7/7/2003		
Rig Name:	NABORS	Rig Number:	347		
TMD: 8,520.00 (ft)	TVD: 8,477.76 (ft)	Calculation Method:	Minimum Curvature		

S/T #	TMD (ft)	Angle (°)	Azimuth (°)	CTM	TVD (ft)	N-S (ft)	E-W (ft)	Section (ft)	DLS (°/100ft)	BUR (°/100ft)	Type
OH	7,896.00	7.50	294.70	YNN	7,857.31	66.61	-426.41	430.86	4.29	-4.13	MWD
OH	7,959.00	7.00	298.70	YNN	7,919.81	70.17	-433.51	438.28	1.13	-0.79	MWD
OH	7,990.00	6.90	301.30	YNN	7,950.58	72.05	-436.76	441.69	1.06	-0.32	MWD
OH	8,054.00	6.50	301.30	YNN	8,014.14	75.93	-443.14	448.42	0.63	-0.63	MWD
OH	8,148.00	6.00	300.20	YNN	8,107.58	81.16	-451.93	457.68	0.55	-0.53	MWD
OH	8,241.00	6.00	296.90	YNN	8,200.07	85.81	-460.47	466.62	0.37	0.00	MWD
OH	8,369.00	5.60	296.20	YNN	8,327.42	91.59	-472.04	478.70	0.32	-0.31	MWD
OH	8,482.00	5.20	300.40	YNN	8,439.92	96.62	-481.40	488.51	0.50	-0.35	MWD
OH	8,520.00	5.07	301.81	YNN	8,477.76	98.37	-484.31	491.57	0.48	-0.34	MWD