Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. Div ist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

C/S F

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
LC-NM83552

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr,.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

2. Name of Operator
Devon-SFS Operating, Inc.

8. Lease Name and Well No.
Old Ranch Knoll 8 Federal #5

3. Address
20 N. Broadway, suite 1500, OKC, OK 73102 (W. Frank)

3.a Phone No. *(Include area code)*
(405)552-4595

9. API Well No.
30-015-31326

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At Surface 1822' FSL & 1903' FWL, Unit K, Section 8-T22S-R24E

At top prod. interval reported below 2445' FSL & 1865' FWL, Unit K, Section 8-T22S-R24E

At total depth 2572' FNL & 1910' FWL, Unit F, Section 8-T22S-R24E

10. Field and Pool, or Exploratory
Indian Basin (Upper Penn) Assoc.

11. Sec., T., R., M., on Block and Survey or Area 8-22S-24E

12. County or Parish
Eddy Cnty,

13. State
New Mexico

14. Date Spudded	15. Date T.D. Reached	16. Date Completed ☐ D & A ☒ Ready to Prod.	17. Elevations (DF, RKB, RT, GL)*
02/11/2002	03/18/2002	5-8-2002	GL 4127', DF 4143', KB 4144'

18. Total Depth: MD 8550' TVD 8352'	19. Plug Back T.D.: MD 8459' TVD	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, Azimuthal Laterolog Micro-CFL/NGT and CBL/GR/CCL

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	9 5/8" J55	36	surface	1604'		see item 32		surface	
8 3/4"	7" J55/L80	23/26	surface	8550'		see item 32		6480' 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" 6.5#	L80 / ESP 8438'							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Cisco-Canyon	7857'	8550'	7922-8370'	.41" EHD	357	Producing
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7922-8122'	18,199 gals 20% HCl/CO2 + BS
8224-8237'	5806 gals 20% HCl/CO2 + BS
8293-8370'	12,999 gals 20% HCl/CO2 + BS
	used total 37,004 gals foamed acid + 448 BS for perfs 7922-8370'

ACCEPTED FOR RECORD
JUL 10 2002
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
5-8-02	5-17-02	24	→	284	1869	1944	40		R-14 ESP pump, 140 HP, 312 stage

Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status
			→	284	1869	1944	6581/1	Producing

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
			→					

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(See Instructions and spaces for additional data on reverse side)

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**	

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**	
								Producing	

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

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porsity and contents thereof: Cored intervals and all drill-stem tests, inlcuding 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-Canyon	7857'	8550'		Glorietta/Yeso	2464'
				Bone Spring	3414'
				2nd Bone Spring	4309'
				3rd Bond Spring	6713'
				Wolfcamp	7186'
				Cisco-Canyon	7857'
				total depth	8550'

32. Additional remarks (include plugging procedure):

Cemented 9 5/8" casing with 400 sx Poz-Fly Ash Lite C + 200 sx Class C.
Cemented 7" casing with 150 sx 15/61/11 Pozmix C + 1930 sx 60/40 Pozmix C; DV's at 3519' & 7827', ECP at 7873'.

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 Engineering Tech.

Signature Candace R. Graham Date 07/08/2002

Title 18 U.S.C. Section 101 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 and false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

WELL NAME AND NUMBER Old Ranch Knoll 8 #5

LOCATION unit k , section 8,T-22S, R-24 E, 1822 FSL, 1903 FWL , eddy co.

OPERATOR Devon Energy Production, Co. 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:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
1/2° @ 267'		
3/4° @ 509'		
1° @ 758'		
1° @ 1040'		
1/4° @ 1259'		
1/2° @ 1510'		

Drilling Contractor United Drilling, Inc.

By: George A. Aho

Title: Business Manager

Subscribed and sworn to before me this 18 day of February, 20 02.

Notary Public

My Commission Expires: 10-04-04

Chaves County, New Mexico State

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OPERATOR: DEVON 005-0010
WELL/LEASE: OLD RANCH KNOLL 8 FED. 5
COUNTY: EDDY

STATE OF NEW MEXICO
DEVIATION REPORT

1,870	3/4
2,125	3/4
2,380	3/4
2,634	1/4
2,890	1/4
3,144	1/4
3,398	3/4
3,653	3/4
3,908	3/4
4,163	1
4,416	3/4
4,668	1 3/4

By:

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 22nd day of April, 2002, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003

JONI D. HODGES
Notary Public
STATE OF TEXAS
My Comm. Exp. 03/31/2003

Scientific Drilling International
Survey Report

Company:	DEVON ENERGY	**Date:** 5/6/2002 **Time:** 13:48:15	**Page:** 1
Field:	Indian Basin	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, True North
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0 above Mean Sea Level
Well:	Old Ranch Knoll 8 Fed. #5	**Section (VS) Reference:**	Well (0.0E,0.0N,359.9Azi)
Wellpath:	VH - Job #32K0302073/147	**Survey Calculation Method:**	Minimum Curvature

Survey:	3/3/02 & 5/6/02 KSRG 0'-4800' & KSRG 4900'-8500'	**Start Date:**	4/3/2002
Company:	Scientific Drilling Internatio	**Engineer:**	Angel Geubara
Tool:	Keeper		

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.13	274.85	100.0	0.0	0.0	-0.1	0.1	274.85	0.13
200.0	0.17	302.58	200.0	0.1	0.1	-0.4	0.4	285.76	0.08
300.0	0.22	295.68	300.0	0.3	0.3	-0.6	0.7	291.99	0.06
400.0	0.26	328.20	400.0	0.5	0.5	-0.9	1.1	299.75	0.14
500.0	0.34	293.63	500.0	0.9	0.8	-1.3	1.6	302.52	0.19
600.0	0.48	296.85	600.0	1.2	1.2	-2.0	2.3	300.34	0.14
700.0	0.47	321.32	700.0	1.7	1.7	-2.6	3.1	302.59	0.20
800.0	0.51	325.74	800.0	2.4	2.4	-3.1	3.9	307.09	0.06
900.0	0.51	329.94	900.0	3.1	3.1	-3.6	4.7	310.90	0.04
1000.0	0.58	336.82	1000.0	4.0	4.0	-4.0	5.6	314.62	0.10
1100.0	0.41	314.54	1100.0	4.7	4.7	-4.5	6.5	316.31	0.25
1200.0	0.28	246.40	1200.0	4.8	4.8	-4.9	6.9	314.32	0.40
1300.0	0.32	232.87	1300.0	4.6	4.6	-5.4	7.1	310.24	0.08
1400.0	0.54	237.87	1400.0	4.2	4.1	-6.0	7.3	304.57	0.22
1500.0	0.38	267.20	1500.0	3.9	3.9	-6.7	7.8	299.89	0.28
1600.0	0.33	331.22	1600.0	4.1	4.1	-7.2	8.3	299.69	0.38
1700.0	0.26	15.95	1700.0	4.6	4.6	-7.3	8.6	302.16	0.23
1800.0	0.07	293.56	1800.0	4.8	4.8	-7.3	8.7	303.53	0.26
1900.0	0.15	331.60	1900.0	5.0	5.0	-7.4	8.9	303.86	0.10
2000.0	0.18	305.64	2000.0	5.2	5.2	-7.6	9.2	304.27	0.08
2100.0	0.32	293.16	2100.0	5.4	5.4	-8.0	9.6	303.97	0.15
2200.0	0.35	269.13	2200.0	5.5	5.5	-8.5	10.1	302.69	0.14
2300.0	0.36	262.27	2300.0	5.5	5.4	-9.2	10.6	300.68	0.04
2400.0	0.43	243.58	2400.0	5.2	5.2	-9.8	11.1	298.05	0.15
2500.0	0.48	242.16	2500.0	4.9	4.9	-10.5	11.6	294.82	0.05
2600.0	0.54	249.69	2599.9	4.5	4.5	-11.3	12.2	291.68	0.09
2700.0	0.31	259.47	2699.9	4.3	4.3	-12.0	12.8	289.62	0.24
2800.0	0.22	260.53	2799.9	4.2	4.2	-12.5	13.2	288.62	0.09
2900.0	0.32	292.82	2899.9	4.3	4.3	-12.9	13.6	288.33	0.18
3000.0	0.30	273.53	2999.9	4.4	4.4	-13.4	14.2	288.14	0.11
3100.0	0.36	279.04	3099.9	4.5	4.5	-14.0	14.7	287.69	0.07
3200.0	0.18	234.96	3199.9	4.5	4.4	-14.5	15.1	287.04	0.26
3300.0	0.27	269.20	3299.9	4.4	4.3	-14.8	15.4	286.31	0.16
3400.0	0.11	210.14	3399.9	4.3	4.3	-15.1	15.7	285.72	0.23
3500.0	0.27	233.56	3499.9	4.1	4.0	-15.3	15.9	284.71	0.17
3600.0	0.32	195.22	3599.9	3.7	3.6	-15.6	16.0	283.06	0.20
3700.0	0.38	199.69	3699.9	3.1	3.0	-15.8	16.1	280.89	0.07
3800.0	0.52	229.38	3799.9	2.5	2.4	-16.2	16.4	278.51	0.27
3900.0	0.68	228.86	3899.9	1.8	1.7	-17.0	17.1	275.85	0.16
4000.0	0.93	233.67	3999.9	0.9	0.9	-18.1	18.2	272.76	0.26
4100.0	1.01	235.98	4099.9	0.0	-0.1	-19.5	19.5	269.71	0.09
4200.0	1.08	228.31	4199.9	-1.2	-1.2	-21.0	21.0	266.67	0.16
4300.0	1.27	223.91	4299.9	-2.6	-2.6	-22.4	22.6	263.27	0.21
4400.0	1.45	216.04	4399.8	-4.4	-4.5	-23.9	24.4	259.43	0.26
4500.0	1.30	213.41	4499.8	-6.4	-6.4	-25.3	26.1	255.73	0.16
4600.0	1.32	201.55	4599.8	-8.4	-8.5	-26.4	27.7	252.22	0.27
4700.0	1.48	213.58	4699.7	-10.5	-10.6	-27.5	29.5	248.92	0.33

Scientific Drilling International
Survey Report

Company:	DEVON ENERGY	**Date:** 5/6/2002 **Time:** 13:48:15 **Page:** 2	
Field:	Indian Basin	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, True North
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0 above Mean Sea Level
Well:	Old Ranch Knoll 8 Fed. #5	**Section (VS) Reference:**	Well (0.0E,0.0N,359.9Azi)
Wellpath:	VH - Job #32K0302073/147	**Survey Calculation Method:**	Minimum Curvature

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
4800.0	1.54	215.64	4799.7	-12.7	-12.8	-29.0	31.7	246.23	0.08
4900.0	1.95	298.29	4899.7	-13.0	-13.1	-31.3	33.9	247.34	2.32
5000.0	3.76	319.57	4999.6	-9.7	-9.8	-34.9	36.2	254.39	2.07
5100.0	4.96	323.45	5099.3	-3.7	-3.8	-39.6	39.8	264.54	1.24
5200.0	6.73	322.23	5198.7	4.4	4.3	-45.8	46.0	275.39	1.77
5300.0	7.16	327.06	5298.0	14.3	14.2	-52.7	54.6	285.05	0.72
5400.0	7.57	326.80	5397.2	25.1	24.9	-59.7	64.7	292.65	0.41
5500.0	8.99	333.11	5496.1	37.6	37.4	-66.9	76.6	299.22	1.68
5600.0	7.94	335.04	5595.0	50.8	50.6	-73.3	89.1	304.63	1.09
5700.0	8.02	340.63	5694.1	63.7	63.5	-78.6	101.0	308.94	0.78
5800.0	8.34	342.39	5793.1	77.2	77.0	-83.1	113.2	312.82	0.41
5900.0	8.88	346.13	5891.9	91.6	91.4	-87.1	126.2	316.37	0.78
6000.0	9.56	351.30	5990.6	107.3	107.1	-90.2	140.0	319.89	1.07
6100.0	10.40	358.50	6089.1	124.6	124.3	-91.7	154.5	323.58	1.50
6200.0	10.56	1.25	6187.5	142.7	142.5	-91.7	169.5	327.22	0.53
6300.0	11.00	0.34	6285.7	161.4	161.2	-91.5	185.4	330.42	0.47
6400.0	12.21	2.46	6383.7	181.5	181.3	-91.0	202.9	333.35	1.28
6500.0	13.16	5.12	6481.2	203.4	203.2	-89.5	222.0	336.23	1.11
6600.0	14.74	6.38	6578.3	227.4	227.2	-87.1	243.3	339.03	1.61
6700.0	15.74	4.02	6674.7	253.6	253.4	-84.7	267.2	341.51	1.18
6800.0	16.53	4.36	6770.8	281.3	281.1	-82.7	293.0	343.61	0.80
6900.0	18.05	8.56	6866.3	310.8	310.6	-79.3	320.6	345.68	1.97
7000.0	19.50	7.90	6961.0	342.6	342.4	-74.7	350.5	347.70	1.47
7100.0	21.24	8.53	7054.7	377.1	376.9	-69.7	383.3	349.52	1.75
7200.0	21.15	8.10	7147.9	412.8	412.7	-64.5	417.7	351.12	0.18
7300.0	17.10	6.14	7242.4	445.3	445.2	-60.4	449.2	352.28	4.10
7400.0	14.98	4.43	7338.5	472.8	472.7	-57.8	476.2	353.03	2.17
7500.0	15.47	3.96	7435.0	499.0	498.9	-55.9	502.0	353.61	0.51
7600.0	17.07	5.80	7531.0	526.9	526.8	-53.5	529.5	354.20	1.68
7700.0	19.14	8.58	7626.0	557.7	557.6	-49.5	559.8	354.92	2.24
7800.0	18.86	10.14	7720.6	589.8	589.7	-44.3	591.4	355.71	0.58
7900.0	20.74	11.83	7814.7	623.0	622.9	-37.8	624.1	356.53	1.97
8000.0	24.07	10.27	7907.1	660.4	660.3	-30.5	661.1	357.35	3.38
8100.0	26.31	8.75	7997.6	702.4	702.3	-23.5	702.7	358.08	2.33
8200.0	27.18	9.10	8086.9	746.8	746.8	-16.5	747.0	358.73	0.88
8300.0	28.76	9.54	8175.2	793.1	793.1	-8.9	793.1	359.36	1.59
8400.0	28.49	9.54	8263.0	840.3	840.3	-1.0	840.3	359.93	0.27
8500.0	26.83	11.20	8351.6	885.9	886.0	7.4	886.0	0.48	1.83