

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

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

3. Address 20 N. Broadway, suite 1500, OKC, OK 73102 (W. Frank) 3.a Phone No. (Include area code) (405)552-4595

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At Surface 1599' FNL & 1248' FWL, Unit E, Section 7-T22S-R24E
At top prod. interval reported below 1916' FSL & 1380' FWL, Unit K, Section 7-T22S-R24E
At total depth 1842' FSL & 1407' FWL, Unit L, Section 7-T22S-R24E

5. Lease Serial No.
NM-NM81219
6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and no.
8. Lease Name and Well No.
Old Ranch Canyon 7 Federal #4
9. API Well No.
30-015-31151 S1
10. Field and Pool, or Exploratory
Indian Basin (Upper Penn) Assoc.
11. Sec., T., R., M., on Block and
Survey or Area 7-22S-24E
12. County or Parish Eddy Cnty. 13. State New Mexico
17. Elevations (DF, RKB, RT, GL)*
GL 3996', DF 4014', KB 4015'

14. Date Spudded 05/01/2000 15. Date T.D. Reached 06/01/2000 16. Date Completed ☐ D & A ☒ Ready to Prod. 7-29-2000

18. Total Depth: MD 8650' TVD 8235' 19. Plug Back T.D.: MD 8580' TVD 8140' 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/GR,
Azimuthal Laterolog Micro-CFL/GR and CBL
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" J55	36	surface	1622'		10-Thix + 450-HLC + 765-CL C		30' CAL	
8 3/4"	7" K55	26#	surface	8648'		500-Mod C		5300' 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" L80 (26#) @ 8468'								

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Upper Penn			8074-8304'		208	Producing
B) Upper Penn			8320-8368'		44	Producing
C)						
D)						

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

Depth Interval	Amount and Type of Material
8074-8304'	21,000 gals gelled 20% HCl + 230 BS
8320-8368'	27,000 gals 20% HCl
8074-8368'	Zap-FeSD iron sulfide treatment
8074-8368'	2000 gals 15% HCl NeFe

ACCEPTED FOR RECORD

JUL 24 2001

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

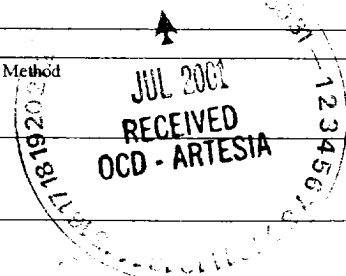
28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7-29-00	8-16-00	24	→	13	555	157			NEO-400 ESP pmp, 70 HP
Choice Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→	13	555	157	42,693/1	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	
			→						

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



Date First Produced	Test Date	Hours Tested	Test Production	24 Hr. Rate	Oil BBL	MCF Gas	Water BBL	Oil Gravity	Gas Gravity	Production Method	
										Well Status	Production Method
				←	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Well Status	Production Method

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	24 Hr. Rate	Oil BBL	MCF Gas	Water BBL	Oil Gravity	Gas Gravity	Production Method	
										Well Status	Production Method
				←	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Well Status	Production Method

28c. Production - Interval D

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

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.

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Meas. Depth
Cisco-Canyon	8089'	8303'		Glorigetta	2239'
				Bone Spring	3021'
				3rd Bone Spring	6757'
				Wolfcamp	7367'
				Cisco-Canyon	8089'
				base Cisco-Canyon	8303'

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

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

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 07/20/2001

WELL NAME AND NUMBER Old Ranch Canyon 7 Fed #4
LOCATION T22S, R24E, 1599' FNL, 1248' FWL, Section 7, Eddy County
OPERATOR Santa Fe Energy Resources, Inc.
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>1/4° @ 512'</u>	<u> </u>	<u> </u>
<u>1/2° @ 1015'</u>	<u> </u>	<u> </u>
<u>3/4° @ 1512'</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Drilling Contractor United Drilling, Inc.

By: George Aho *George A. Aho*
Title: Business Manager

Subscribed and sworn to before me this 9th day of May,
2000.

Karma Jankewsky
Notary Public

My Commission Expires: 9-25-2003 Chaves NM
County State

Well Name and Number: Old Ranch Canyon 7 Federal #4

Location: Sec. 7, T22S, R24E, Eddy County, NM

Operator: Santa Fe Energy Corporation

Drilling Contractor: McVay Drilling Company

The undersigned 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	
1/4	1810	21 1/2	4948	33	6621
1/4	2348	23	5041	29 1/2	6820
3/4	3335	23 1/4	5105	29 1/4	7004
6	3653	26 1/4	5230	29 1/2	7128
6 3/4	3748	27 1/4	5355	28 1/2	7191
10	3939	28 3/4	5450	25	7365
10 3/4	4034	30 3/4	5545	22	7491
13	4193	32 3/4	5631	20 3/4	7593
15 1/4	4384	33	5754	17 1/2	7720
12	4477	33	5879	15 1/2	7814
20	4762	32 3/4	6001	8	8319
21	4853	33	6496	8	8508
				8 1/4	8600

Drilling Contractor: McVay Drilling Company

By: Jan Henry

Subscribed and sworn to before me this 8th day of June, 2000.

Tina Hemmings
Notary Public

My Commission Expires: 8-16-01

Lea County, New Mexico

Job Number: WTX0500D205

State/Country: New Mexico

Company: Santa Fe Snyder

Declination: 9.5

Lease/Well: Old Ranch Canyon 7 Fed. #4

Grid:

Location: Eddy County

File name: C:\SURVEY\RANCH.SVY

Rig Name: Mc Vay #8

Date/Time: 01-Jun-00 / 08:26

RKB:

Curve Name:

G.L. or M.S.L.:

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 185.23
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

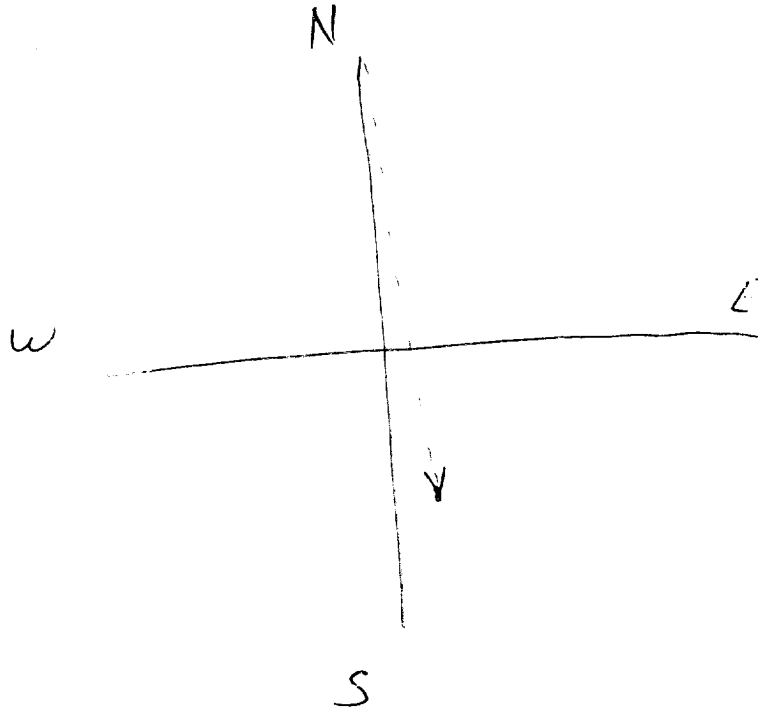
<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>C L O S U R E Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
GYRODATA SURVEY									
3302.00	.23	182.83	3301.90	-10.88	-8.85	11.64	14.02	219.13	.00
3335.00	.80	195.50	3334.90	-11.17	-8.91	11.93	14.29	218.60	1.75
3398.00	2.00	197.00	3397.88	-12.64	-9.35	13.44	15.73	216.49	1.91
3462.00	3.30	192.30	3461.81	-15.51	-10.07	16.36	18.49	213.00	2.06
3525.00	4.30	189.40	3524.67	-19.61	-10.84	20.52	22.41	208.94	1.62
3589.00	5.10	188.70	3588.45	-24.79	-11.67	25.75	27.40	205.20	1.25
3653.00	5.90	187.80	3652.16	-30.86	-12.54	31.88	33.31	202.12	1.26
3716.00	6.50	184.90	3714.79	-37.62	-13.29	38.68	39.90	199.45	1.07
3780.00	7.20	184.90	3778.33	-45.23	-13.94	46.31	47.33	197.13	1.09
3843.00	8.00	184.70	3840.78	-53.53	-14.64	54.64	55.50	195.29	1.27
3907.00	9.20	185.60	3904.06	-63.06	-15.50	64.21	64.94	193.81	1.89
3971.00	10.30	183.00	3967.13	-73.87	-16.30	75.05	75.65	192.44	1.85
4034.00	10.80	181.70	4029.07	-85.39	-16.77	86.57	87.02	191.11	.88
4098.00	11.80	182.30	4091.83	-97.93	-17.21	99.09	99.43	189.97	1.57
4162.00	12.70	182.70	4154.37	-111.49	-17.80	112.65	112.90	189.07	1.41
4225.00	13.40	181.40	4215.74	-125.71	-18.31	126.85	127.03	188.29	1.20
4289.00	14.50	180.70	4277.85	-141.13	-18.59	142.24	142.35	187.50	1.74
4352.00	14.70	182.50	4338.82	-157.01	-19.03	158.09	158.16	186.91	.79
4415.00	15.80	183.60	4399.60	-173.55	-19.92	174.65	174.69	186.55	1.81
4477.00	17.10	183.80	4459.06	-191.07	-21.05	192.20	192.23	186.29	2.10
4540.00	17.70	182.70	4519.18	-209.88	-22.12	211.02	211.04	186.02	1.09

ORC 7-4

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4604.00	18.60	182.40	4579.99	-229.80	-23.00	230.94	230.95	185.72	1.41
4667.00	19.70	182.90	4639.51	-250.44	-23.96	251.58	251.58	185.47	1.77
4730.00	20.10	184.00	4698.74	-271.84	-25.25	273.02	273.02	185.31	.87
4794.00	20.40	184.10	4758.79	-293.94	-26.82	295.16	295.16	185.21	.47
4853.00	20.90	183.90	4814.00	-314.70	-28.27	315.96	315.96	185.13	.86
4916.00	21.30	184.90	4872.77	-337.31	-30.01	338.64	338.64	185.08	.85
4980.00	21.70	186.40	4932.32	-360.65	-32.32	362.09	362.09	185.12	1.06
5041.00	22.90	186.70	4988.76	-383.64	-34.97	385.23	385.23	185.21	1.98
5103.00	23.30	186.10	5045.79	-407.82	-37.68	409.55	409.55	185.28	.75
5166.00	24.60	185.00	5103.36	-433.27	-40.14	435.13	435.13	185.29	2.18
5230.00	26.30	184.50	5161.15	-460.68	-42.42	462.63	462.63	185.26	2.68
5292.00	26.40	184.30	5216.71	-488.12	-44.53	490.14	490.14	185.21	.22
5355.00	27.20	184.70	5272.94	-516.43	-46.76	518.54	518.54	185.17	1.30
5419.00	28.20	185.10	5329.60	-546.07	-49.30	548.29	548.29	185.16	1.59
5482.00	29.50	185.10	5384.78	-576.35	-52.00	578.69	578.69	185.16	2.06
5545.00	30.70	184.60	5439.29	-607.83	-54.67	610.28	610.29	185.14	1.95
5609.00	32.00	184.50	5493.94	-641.02	-57.31	643.58	643.58	185.11	2.03
5641.00	32.70	184.40	5520.98	-658.09	-58.64	660.70	660.70	185.09	2.19
SINGLE SHOTS									
5754.00	33.00	184.00	5615.91	-719.23	-63.13	721.99	721.99	185.02	.33
5879.00	33.00	184.00	5720.74	-787.14	-67.88	790.05	790.06	184.93	.00
6001.00	32.75	180.00	5823.21	-853.29	-70.20	856.14	856.17	184.70	1.79
6123.00	32.75	179.00	5925.82	-919.28	-69.62	921.80	921.92	184.33	.44
6247.00	32.75	177.00	6030.11	-986.32	-67.28	988.34	988.61	183.90	.87
6372.00	33.00	174.00	6135.10	-1053.94	-61.95	1055.20	1055.76	183.36	1.32
6496.00	33.00	173.00	6239.10	-1121.04	-54.31	1121.32	1122.35	182.77	.44
MWD SURVEYS									
6621.00	33.50	170.00	6343.64	-1188.80	-44.17	1187.88	1189.62	182.13	1.38
6727.00	31.50	170.20	6433.04	-1244.90	-34.37	1242.85	1245.38	181.58	1.89
6820.00	29.80	174.30	6513.05	-1291.85	-27.94	1289.02	1292.15	181.24	2.90
6942.00	28.10	181.20	6619.83	-1350.76	-25.53	1347.46	1351.00	181.08	3.07
7066.00	29.50	187.20	6728.51	-1410.26	-29.97	1407.12	1410.58	181.22	2.59
7191.00	28.60	194.00	6837.82	-1469.84	-41.07	1467.47	1470.42	181.60	2.74
SINGLE SHOTS									
7365.00	25.00	198.00	6993.11	-1545.25	-62.51	1544.52	1546.51	182.32	2.31
7491.00	22.00	199.00	7108.65	-1592.90	-78.43	1593.42	1594.83	182.82	2.40
7595.00	20.75	199.00	7205.50	-1628.74	-90.77	1630.23	1631.26	183.19	1.20
7720.00	17.50	200.00	7323.58	-1667.34	-104.41	1669.92	1670.61	183.58	2.61
7814.00	15.50	199.00	7413.71	-1692.50	-113.33	1695.79	1696.29	183.83	2.15
7941.00	13.00	194.00	7536.79	-1722.42	-122.32	1726.39	1726.75	184.06	2.19
8129.00	11.50	195.00	7720.51	-1761.04	-132.28	1765.76	1766.00	184.30	.81
8319.00	8.00	199.00	7907.74	-1791.84	-141.49	1797.28	1797.42	184.51	1.88

ORC 7-4

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
8508.00	8.00	200.00	8094.90	-1816.64	-150.27	1822.77	1822.84	184.73	.07
8600.00	8.25	210.00	8185.98	-1828.37	-155.76	1834.96	1834.99	184.87	1.56
PROJECTOR TO BIT									
8650.00	8.25	210.00	8235.46	-1834.58	-159.35	1841.47	1841.49	184.96	.00



2433 N / 1407