

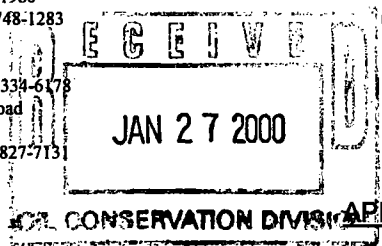
1586

Date 06/99

District I - (505) 393-6161
1625 N. French Dr
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

SUBMIT ORIGINAL
PLUS 2 COPIES
TO THE SANTA FE
OFFICE



OIL CONSERVATION DIVISION APPLICATION FOR NEW WELL STATUS

I. Operator and Well

Operator name & address Fasken Oil and Ranch, Ltd. 303 W. Wall, Suite 1800 Midland, TX 79701							OGRID Number 151416		
Contact Party Carl Brown							Phone (915) 687-1777		
Property Name Avalon Federal					Well Number 2		API Number 30-015-29730		
UL T	Section 1	Township 21 S	Range 25 E	Feet From The 2080	North/South Line South	Feet From The 750	East/West Line West	County Eddy	

II. Date/Time Information

Spud Date 10-31-99	Spud Time 3:30 a.m. CST	Date Completed 1-7-00	Pool Catclaw Draw Morrow
-----------------------	----------------------------	--------------------------	-----------------------------

- III. Attach copies of Form C-103 or Federal Form 3160-5 showing date/time of drilling commenced and Form C-105 or Federal Form 3160-4 showing well was completed as a producer.
IV. Attach a list of all working interest owners with their percentage interests.
V. AFFIDAVIT:

State of Texas)
County of Midland)
ss.

Carl Brown, being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced well.
- To the best of my knowledge, this application is complete and correct.

Signature Carl Brown Title Petroleum Engineer Date 1-24-00

SUBSCRIBED AND SWORN to before me this 24 day of January, 2000.



V. Beth Jordan
Notary Public

My Commission expires: 10-5-00

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature <u>Mark E. Salby</u>	Title <u>P.E. Spec.</u>	Date <u>MAR 07 2000</u>
-----------------------------------	----------------------------	----------------------------

VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: 3/7/00

NOTICE: The operator must notify all working interest owners of this New Well certification.

71212010838292

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. I.C.A.B.E. DESIGNATION AND SERIAL NO.

NMLC 070409

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Avalon Federal No. 2

9. API WELL NO.

30-015-29730

10. FIELD AND POOL, OR WILDCAT

Catclaw Draw Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 1, T-21-S, R25E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ REPAIR ☐ PLUG BACK ☐ DIFF. REPAIR ☐ Other _____

2. NAME OF OPERATOR

Fasken Oil and Ranch, Ltd.

3. ADDRESS AND TELEPHONE NO.

303 W. Wall, Suite 1800, Midland, TX 79701 (915) 687-1777

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

2080' FSL and 750' FNL

At top prod. interval reported below

same

At total depth

14. PERMIT NO.

DATE ISSUED

6/28/99

12. COUNTY OR
PARISH

Eddy

13. STATE

NM

Same

15. DATE SPUDDED

10/31/99

16. DATE T.D. REACHED

12/3/99

17. DATE COMPL. (Ready to prod.)

1/7/00

18. ELEVATIONS (OF. HKB, RT, OR, ETC.)*

3265' GR

19. ELEV. CASINGHEAD

3265'

20. TOTAL DEPTH, MD & TVD

10600'

21. PLUG, BACK T.D., MD & TVD

10545'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

All

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

10407'-10413' Morrow

(10407'-10413'TVD)

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Three detector Litho-Density/Compensated Neutron/GR,BHC Sonic, Azimuthal Laterolog/Micro-CFL

27. WAS WELL CORRED

No

28. 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
13-3/8" H-40	48.0#	437'	17 1/2"	Surf., 400 sx "C", 1" with 215 sx "C"	-
9-5/8" J-55	36.0#	2003'	12 1/4"	Surf., 925 sx "C"	-
5 1/2" N-80	17.0#	10593'	8-3/4"	1st stg. 850 sx "C" circ 100 sx thru DV	-
		DV @ 7276'		2nd stg. 1200 sx C+100sx H	TOC 7200' by temp

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	10295'	10295'

31. PERFORATION RECORD (Interval, size and number)

10407'-10413' (0.23", 13 holes)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10407'-10413'	Natural

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
1/7/00		Flowing					Producing	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
1/16/00	24	1"	→	20	3369	1		
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
550	0	→	20	3209	1			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

Mark Jacobs

35. LIST OF ATTACHMENTS

C-104, Deviation Report, Drilling & DST Summary, Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Carl Brown

TITLE

Petroleum Engineer

DATE

1/24/00

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

Title 18 U.S.C. Section 1001, makes 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.

37. SUMMARY OF POROUS ZONES: (Show all important zones of 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):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Delaware	1834'	1834'
				Bone Spring	3368'	3368'
				1st Bone Spring Sd	5216'	5216'
				3rd Bone Spring Sd	7298'	7298'
				Wolfcamp Shale	7570'	7570'
				Cisco Limestone	8122'	8122'
				Canyon Lime	8756'	8756'
				Strawn	9248'	9248'
				Atoka	9590'	9590'
				Morrow Lime	9794'	9794'
				Morrow Clastics	10146'	10146'
				Lower Morrow	10366'	10366'

**FASKEN OIL AND RANCH, LTD.
AVALON FEDERAL NO. 2
DRILL AND COMPLETE**

Location: 2080' FSL & 750' FWL, Section 1, T-21-S, R-25-E, Eddy County, New Mexico
Elevation: 3265' GL.

Spudded well @ 3:30 am CST 10-31-99.

Drilled 17-1/2" hole to 436' with fresh water. Lost complete returns at 218'. Set 13-3/8" 48.0# H-40 ST&C casing at 437'. Cemented with 500 gallons GW-27, 200 sx Class "H" with 10% A-10B (Thixset), 1% CaCl₂, 10# gilsonite, and 1/4# celloflake (s.w. 14.6 ppg, yield 1.52 ft³/sx) plus 400 sx Class "C" with 2% CaCl₂ (s.w. 14.8 ppg, yield 1.34 ft³/sx). PD @ 2:10 am CST 11-1-99. Had partial circulation after landing casing on bottom. Lost all returns during cementing operations. Top of cement at 125' per temperature survey.

1" cemented down 17-1/2" x 13-3/8" annulus as follows;

Plug #1: Tagged TOC at 125' with 1" tubing. Cemented @ 125' with 50 sx Class "C" with 6% CaCl₂ (s.w. 14.8 ppg, yield 1.34 ft³/sx).

Plug #2: WOC 2 hrs, tagged at 90'. Established circulation with 19 bbl fresh water. Cemented to surface with 90 sx Class "C" with 2% CaCl₂ (s.w. 14.8 ppg, yield 1.34 ft³/sx).

NOTE: Setting plug #2 was witnessed by Ms. Kathy Queen with the BLM, Carlsbad, NM.

Drilled 12-1/4" hole to 2005' with fresh water. Set 9-5/8" 36.0# J-55 ST&C casing at 2003'. Cemented casing with 500 gallons GW-27, 200 sx Class "A" w/ 10% A-10B, 1% CaCl₂, 10# Gilsonite/sk, 1/4# celloflake/sk (sw 14.6 ppg, yield 1.52 cuft/sk) + 525 sx Class "C" w/ 4% Gel, 2% CaCl₂ (sw 13.5 ppg, yield 1.74 cuft/sk) + 200 sx Class "C" w/ 2% CaCl₂ (sw 14.8 ppg, yield 1.34 cuft/sk). Plug down @ 5:55 pm CST 11-5-99. Circulated 607 sx excess cement. Cementing operations witnessed by Mr. Gene Hunt with the BLM, Carlsbad, NM.

Drilled 8-3/4" hole to 8376' with 9.0 ppg cut brine water. Lost complete returns @ 8304'. Pumped mud and LCM plugs with no returns. Spotted open hole cement plugs as follows;

Cement plug #1 spotted @ 8100'; 150 sx Class "H" with 10% A-10B (Thixset), 1% CaCl₂, 12# gilsonite and 1/4# celloflake (s.w. 14.6, yield 1.52 ft³/sx).

Cement plug #2 spotted @ 8100'; 125 sx Class "H" with 10% A-10B (Thixset), 1% CaCl₂, 12# gilsonite and 1/4# celloflake (s.w. 14.6, yield 1.52 ft³/sx).

Cement plug #3 spotted @ 8175'; 125 sx Class "H" with 10% A-10B (Thixset), 1% CaCl₂, 12# gilsonite and 1/4# celloflake (s.w. 14.6, yield 1.52 ft³/sx).

Drilled out cement plug and lost complete returns at 8380'. Drilled to 8438' and spotted open hole cement plugs as follows;

Cement Plug #4 spotted @ 8311'; 200 sx Class "H" with 10% A-10B (Thixset), 1% CaCl₂, 12# gilsonite and 1/4# celloflake (s.w. 14.6, yield 1.52 ft³/sx).

Cement plug #5 spotted @ 8160'; 150 sx Class "H" with 10% A-10B (Thixset), 1% CaCl₂, 12# gilsonite and 1/4# celloflake (s.w. 14.6, yield 1.52 ft³/sx).

Drilled to TD of 10,600'. Mudded up at 9360' with properties of 9.3 ppg mud weight, 36 sec. viscosity, pH 10.5, 11 cc water loss. Hole losing 10-20 bbl/hr drilling fluid.

Set 5-1/2" 17.0# N-80 LT&C casing at 10,593' with DV tool at 7276'. Cemented casing as follows;

Cemented first stage with 500 gals. mud flush, 850 sx Super "C" Modified w/ 8#/sk gilsonite, 0.4% CD-32, 0.8% FL-50 (sw 13.1 ppg, yield 1.6 cu.ft./sk). Plug down @ 12:15 am 12-6-99, opened DV tool and circulated 100 sx excess cement.

Cemented second stage with 1200 sx BJ Lite "C" with 6% gel, 1% salt and 0.4% FL-62 (s.w. 12.5 ppg, yield 1.93 ft³/sx) plus 100 sx Class "H" neat (s.w. 15.6 ppg, yield 1.18 ft³/sx). PD at 8:15 am 12-6-99. TOC at 720' per temperature survey.

DST No. 1 (10,164' - 10,297')

OT at 9:45 am 11-30-99 with weak blow on 1/8" bubble hose

1 min. 4" in bucket

2 min. 8" in bucket

3 min. blowing from bottom of bucket

4 min. 6 oz

5 min. 7 oz, closed tool. SI 1 hour

Re-opened tool with weak blow on 1/8" bubble hose

5 min. 19 oz

10 min. 18-1/2 oz

20 min. 18-1/2 oz.

30 min. 18-1/2 oz.

40 min. 22 oz, switched to 1/4" choke

50 min. 3-1/2 psi on 1/4" choke

60 min. 2-3/4 psi, closed tool. Tool closed 2 hrs.

Recovery: 189' (0.9 bbls) mud

Sampler: 165 psi, 1.2 cu.ft. gas

IHP	4966 psi
IPFP	204 psi
FPFP 5"	165 psi
ISIP 60"	850 psi
IFP	104 psi
FFP 60"	163 psi
FSIP 120"	1209 psi
FHP	4968 psi
BHT	166°

DST No. 2: 10,285' - 10,420'

Opened tool at 5:52 am CST 12-2-99 on 1/8" bubble hose with good blow in 40 seconds.

1 min. 14 oz

2 min. 7 psi

3 min 65 psi

4 min. 180 psi changed to 1/4" choke

5 min. 280 psi 434 mcfpd

Closed tool at 5:57 am. GTS in 6-1/2 minutes.

Re-opened tool at 7:00 am on 1/4" choke

1 min. 20 psi 50 mcfpd

5 min. 540 psi 815 mcfpd

10 min. 800 psi 1198 mcfpd

15 min. 1080 psi 1610 mcfpd

30 min. 1950 psi 2891 mcfpd

45 min. 2300 psi 3406 mcfpd

55 min. 2500 psi 3701 mcfpd, chg'd to 3/8" choke.

60 min.	2300 psi	7868 mcfpd
75 min.	2000 psi	6848 mcfpd
90 min.	1900 psi	6508 mcfpd
105 min.	1850 psi	6338 mcfpd
120 min.	1800 psi	6168 mcfpd
135 min.	1740 psi	5964 mcfpd
150 min.	1700 psi	5828 mcfpd, unloading mud
165 min.	1850 psi	6338 mcfpd
180 min.	1860 psi	6372 mcfpd, unloading mud
195 min.	1875 psi	6423 mcfpd, burning clean
210 min.	1850 psi	6338 mcfpd
225 min.	1825 psi	6253 mcfpd
240 min.	1825 psi	6253 mcfpd, closed tool

Recovery: 270' mud, CI 65,000 ppm (1.33 bbls), 270' condensate, 49.8 deg. API at 60 deg. F, 270' oil cut mud, CI 61,000 ppm.

Sampler: 1875 psig, 12.52 cuft gas and 5 cc condensate.

Pressures:

IHP	5006 psig
IPFP	2945 psig
FPFP	1362 psig
ISIP	4407 psig
IFP	1358 psig
FFP	2431 psig
FSIP	4381 psig
FHP	4971 psig
BHT	171 deg F.

Fasken Oil & Ranch, Ltd.
Avalon Federal No. 2
Sec. 1, T-21-S, R-25E
2080' FSL & 750' FWL
Eddy County, New Mexico

Working Interest Owners

	<u>Working Int. %</u>
Fasken Oil & Ranch, Ltd. 303 W. Wall Suite 1900 Midland, TX 79701	25.883505%
Brooks Oil & Gas Interests, Ltd. C/O Dugan & Rasure 900 Main Street, Suite A Durango, CO 81301	0.3066634%
Matador E & P Company Suite 158, Pecan Creek 8340 Meadow Road Dallas, TX 75231-3751	25.883505%
Devon Energy Corp. 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102-8260	25.883505%
Robert Haynie 5655 S. Yosemite, Suite 203 Englewood, CO 80111	0.376545%
Mewbourne Oil Company P. O. Box 7698 Tyler, TX 75711-7698	21.666277%
Total	100.000000%