

Form 3160-5  
(June 1990)

NM Oil Cons. Commission  
Drawer DD  
Artesia, NM 88210  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0125  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

McKay Oil Corporation

3. Address and Telephone No.

Post Office Box 2014, Roswell, NM 88201

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

660' FSL & 660' FEL

5. Lease Designation and Serial No.

NM-88084

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Samantha Federal #1

9. API Well No.

30-005-62893

10. Field and Pool, or Exploratory Area

W. Pecos Slope Abo

11. County or Parish, State

Sec. 31-5S-22E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>Spud &amp; surface csg.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spudded well @ 12:35 p.m. on 3-31-92

RIH w/24 jts. 8 5/8" csg., landed csg. @ 1022', shoe jt. 42.83 w/insert float guide shoe, 1 centralizer. RU Halliburton, mix & pump 150 sxs Halliburton Lite w/4% CaCl @ 12.7#/gal 1/2# Celoflakes, tail in w/100 sxs Pre plus w/2% CaCl @ 14.8#/gal, drop plug @ 5:10 p.m. displace w/H2O, landed plug @ 5:28 p.m. Job completed @ 5:29 p.m. WOC 4 hrs. TIH w/1" tbg, tag cmt @ 827'. (see attached)

RIH w/96 jts. 4 1/2", 10.5# used csg., set @ 3122 w/marker jts set @ 2800'. Mix & pump 500 gal mud flush ahead, 250 sxs Premium Plus POZ 65/35, 2.5 salt, 4/10 Halad 322, 1/2 FS, 2% gel 14.2#/gal. Shut down drop plug, displace H2O, landed plug, release PSI-float held. Job completed @ 7:54 p.m. WOC 4 hrs.

14. I hereby certify that the foregoing is true and correct

Signed

*Theresa Rodriguez*

Title

Production Analyst

Date

5-13-92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

ACCEPTED FOR RECORD  
PETER W. CHESTER  
Date

SEP 1 1992

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.

\*See Instruction on Reverse Side

OPERATOR : MCKAY OIL CORPORATION  
WELL NAME: SAMANTHA FEDERAL #1  
PROSPECT : Pecos Slope Abo  
ID# : NM-88084  
LOCATION : Sec. 31-5S-22E

PROPOSED TD : 3400'  
PBD :  
ELEVATION : 4205' gl  
SPUD DATE : 3-30-92  
CONFIDENTIAL:

3-25-92 Valley Const. started work.  
3-26-92 Work on location.  
3-27-92 Work on location.  
3-28-92 Work on location.  
3-29-92 Work on location.  
3-30-92 Depth 211'. Made 21' in 3 hrs., 18" hole, drilling w/air & mist, 80-85 RPM, WOB all, RIH w/1 jt. 13 3/8" csg. RU 4 hrs. Spudded well @ 12:35 p.m. WOC. SION  
3-31-92 Depth 214'. Made 193' in 15 1/4 hrs, drilling w/air & mist, 80-85 RPM, WOB all. Bit 12 1/2 Varrel, F27. Received from Hondo Pipe 26 jts. 1116.30 ft new 8 5/8", 24# csg.  
4-1-92 Depth 814'. Made 600' in 23.5 hrs., drilling w/air & mist, 80-85 RPM, WOB 30000, service rig 1/2 hr. 86 sxs. fresh wtr. gel, 1 sx. caustic, 3 sxs lime. 38 1/2 hrs on bit #1.  
4-2-92 Depth 1039'. Made 225' in 5 3/4 hrs. Drilled w/air & mist, 80-85 RPM, WOB 30,000, TD @ p.m. Circ hole w/250 bbis FWG, Visc. 40, wt 9.8 for 1/2 hr., TOH, RU csg crew & ran 24 jts. 8 5/8" csg landed @ 1022', shoe jt. 42.83 w/insert float guide shoe, 1 centralizer. RU Halliburton, mix & pump 150 sxs Halliburton Lite w/4% CC @ 12.7# gal. 1/2# Celo-flaxes, tail in w/100 sxs Prem + 2% CC @ 14.8# gal. Drop plug @ 5:10 p.m., displace w/H2O, land plug @ 5:28 p.m. Release PSI - float held. Job completed @ 5:29 p.m. WOC 4 hrs., TIH w/1" tbg, tag cmt @ 827'. RU Halliburton to 1" tbg. 1st plug 10:59 p.m. 30 sxs + 4% CC 15.8# /gal, no gain TOC 827', 2nd plug 1:05 a.m. 30 sxs + 4% CC 14.8#/gal 100 gal SF NG TOC 827'. GIH w/5 yds per gravel, no gain. 3rd plug 3:01 a.m. 40 sxs + 4% CC 16#/gal 100 gal SF, gain 49', TOC 778'. 4th plug 3:50 a.m. 30 sxs + 4% CC 16#/gal, 100 gal SF, no gain TOC 778'. RIH w/3 yds pee gravel, gain 15', 5th plug 5:15 a.m. 30 sxs + 4% CC 16#/gal, 100 gal SF, gain 59', TOC 719'. 6th plug 6:07

ACCEPTED FOR RECORD  
PETER W. CHESTER

SEP 1 1992

BUREAU OF LAND MANAGEMENT  
ROSWELL RESOURCE AREA



OPERATOR : MCKAY OIL CORPORATION  
WELL NAME: SAMANTHA FEDERAL #1.  
PROSPECT : Pecos Slope Abo  
ID# : NM-88084  
LOCATION : Sec. 31-5S-22E

PROPOSED TD : 3400'  
PBD :  
ELEVATION : 4205' gl  
SPUD DATE : 3-30-92  
CONFIDENTIAL:

a.m. 30 sxs + 4% CC 16#/gal, no gain, TOC 719'. RIH  
w/2 yds pee gravel, gain 15'.

4-3-92

7th plug 7:35 a.m. 30 sxs + 4% CC 16#/gal, 100 gal SF, gain 73', TOC 646', 8th plug 8:31 a.m. 30 sxs + 4% CC 16#/gal 100 gal SF, gain 83', TOC 563', 9th plug 9:36 a.m. 30 sxs + 4% CC 16#/gal, 100 gal SF, gain 43', TOC 520'. RIH w/2 yds Pee gravel, gain 15', 10th plug 10:44 a.m. 30 sxs + 4% CC 16#/gal, 100 gal SF, gain 22', TOC 498', RIH w/1.5 yds pee gravel, gain 15', 11th plug 11:59 a.m. 30 sxs + 4% CC 16#/gal 100 gal, SF, gain 100', TOC 398', 12th plug 12:58 p.m. 30 sxs + 4% CC 16#/gal, gain 50', TOC 348', 13th plug 12:58 p.m. 30 sxs + 4% CC 16#/gal, gain 57', TOC 291', 14th plug 2:56 p.m. 30 sxs + 4% CC 16#/gal, gain 101', TOC 190', 15th plug 3:53 p.m. 30 sxs + 4% CC 16#/gal, gain 23', TOC 167', GIH w/1.5 yds Pee gravel, gain 15', 16th plug 4:57 p.m. 30 sxs + 4% CC 16#/gal, gain 37', TOC 130', 17th plug 5:47 p.m. 30 sxs + 4% CC 16#/gal, 100 gal SF, 18th plug 30 sxs + 2% CC 16#/gal, circ. cmt. to surface 6 sxs to pit. Job complete @ 6 p.m. Nipple up BOP, test blind rams and manifold, choke 1200# 30 min., OK, TIH w/7 7/8" bit WM, type 52 F, 3-13 jets, drill collars, DP, test pipe rams 1200#, 30 min. OK, drill cmt & insert 2.5 hrs, drilled formation 5 hrs, made 300' 60-65 RPM, WOB 30,000, PP 600#, LS 5 1/2, SPH 58, fresh wtr. depth 1339'.

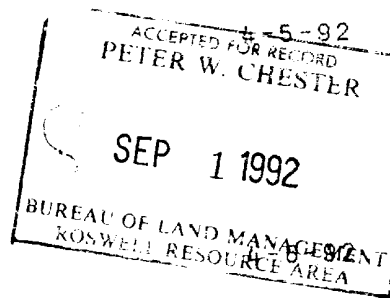
4-4-92

Depth 2629', made 1290' in 23 3/4 hrs., 60-65 RPM, WOB 30,000, 600 press., liner 5 1/2, strokes 58, native mud, DS 1/2 degree @ 1514, 3/4 degree @ 2015', 1 degree @ 2513'.

4-5-92

Depth 3150', made 521' in 16 hrs., 60-65 RPM, WOB 35,000, press 800, liner 5 1/2, strokes 60, MW 10, Vic. 38, WL 10, PH 10, mix 410 sxs SWG, 140 sxs starch, 6 sxs caustic, 1 sxs lime. TD'd @ 11:30 p.m. DS 1 1/4 degree @ 3026', 1 1/4 degree @ 3150', circ 1 hr., short trip, circ 1 1/2 hr. TOH, rig up Dresser Atlas to log.

Depth 3150' Dresser Atlas ran CNDL, DLL, Caliper, 6 hrs logging. Rig down Dresser Atlas. TIH w/DP. TOH, lay down DP. RU Csg. crew. Ran 96 jts. 4 1/2" 10.5# used





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Artesia, NM 88210

Other Instg  
NM Oil Records  
Brewer DD

Mission Budget Bureau No. 1004-0136  
Expires August 31, 1985  
LEASE DESIGNATION AND SERIAL NO.

NM-88084

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL  
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
McKay Oil Corporation ✓

3. ADDRESS OF OPERATOR  
P.O. Box 2014, Roswell, NM 88202  
MAR 25 1992

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface  
660' FSL - 660' FEL  
At proposed prod. zone  
660' FSL - 660' FEL  
w.p.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
Approximately 26 north of Roswell, NM

10. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
660'

16. NO. OF ACRES IN LEASE  
640.0

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160.0

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
0'

19. PROPOSED DEPTH  
3,400'

20. ROTARY OR CABLE TOOLS  
rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4205' GL

22. APPROX. DATE WORK WILL START  
3-9-92

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Samantha Federal

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
W. Pecos Slope Abo

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 31, T-5S, R-22E

12. COUNTY OR PARISH  
Chaves

13. STATE  
NM

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24 J-55	900+	850 cf cement circulated
7 7/8"	4 1/2"	10.5 J-55	TD	1200 cf cement including 480 cf to tie in 4 1/2 to 8 5/8" from 1500' to 800'

We propose to drill and test the Abo Formation. Approximately 900' of surface casing will be set and cemented to surface. If commercial, 4 1/2 production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: See Supplemental Drilling Data which is attached.

BOP PROGRAM: BOP will be installed on 8 5/8" casing and tested daily.

Gas is not dedicated.

Part ID-1  
3-27-92  
New Line + API

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Sam E. Self TITLE Agent DATE 3-3-92

(This space for Federal or State office use)

PERMIT NO. David Stout APPROVAL DATE Asst Area Manager DATE 3-24-92

APPROVED BY David Stout TITLE Asst Area Manager DATE 3-24-92

CONDITIONS OF APPROVAL, IF ANY:

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUCTION OF THE ACCESS ROAD OR PAD WITHOUT PAYMENT IN ADVANCE.

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJ. LOT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON

The United States, 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.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

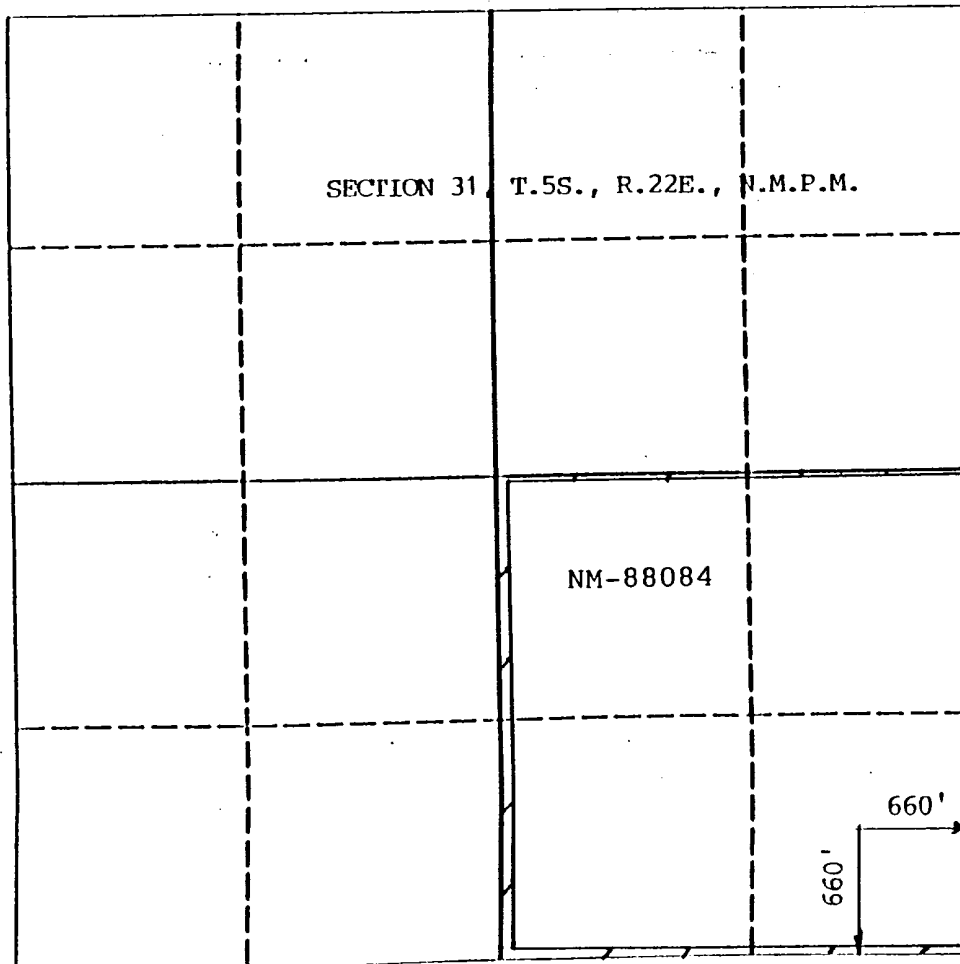
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MCKAY OIL CORPORATION			Lease SAMANTHA FEDERAL		Well No. #1
Unit Letter P	Section 31	Township 5S.	Range 22E.	County NMFM	CHAVES
Actual Footage Location of Well: 660 feet from the SOUTH line and 660 feet from the EAST line					
Ground level Elev. 4205	Producing Formation ABO		Pool W. Pecos Slope Abo		Dedicated Acreage: 160.0 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature  
*Sam L. Shackelford*  
Printed Name  
Sam L. Shackelford  
Position  
Representative  
Company  
McKay Oil Corp.  
Date  
2-16-92

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 knowledge and belief.

Date Surveyed  
2/10/92  
Signature & Seal of  
Professional Surveyor  
*John H. Rogers*  
Certificate No.  
6290

BK. 62, PG. 59

## SUPPLEMENTAL DRILLING DATA

MCKAY OIL CORPORATION  
Samantha Federal #1  
SE/4SE/4 of Sec. 31, T-5S, R-22E  
Chaves County, New Mexico  
NM-88084

The following items supplement Form 9-331C in accordance with instruction contained in NTL-6.

1. SURFACE FORMATION: San Andres
2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

Yeso	-	685'
Tubb	-	2065'
Abo	-	2900'
3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Fresh Water	-	In surface formation above 600'
Gas	-	In Abo formation below 2900'
4. PROPOSED CASING PROGRAM: See Form 9-331C
5. PRESSURE CONTROL EQUIPMENT: Blowout preventer will consist of at least a double-ram blowout preventer rated to 2000#WP. The BOP will be tested to 1100 PSI through the rig pumps. We feel that this is a sufficient test, because the Abo Formation is historically a tight low pressure reservoir and will not exceed 1000 PSI.
6. CIRCULATING MEDIUM:  
Air Drilling to 100' above the top of the Abo formation. Then mud-up till TD.
7. AUXILIARY EQUIPMENT: Full-opening drill string safety valve fit for the drill string in use, will be kept on the rig floor at all times.
8. TESTING, LOGGING AND CORING PROGRAM:

Samples:	Catch samples from surface to TD.
DST'S:	None
Logging:	GR-CNL, Dual Lateral MSFL from surface to TD.
Coring:	None





9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:  
None anticipated.
10. ANTICIPATED STARTING DATE: ASAP  
Drilling should be completed within 60 days.  
Completion operations (perforations and stimulation)  
will follow drilling operations.