

COUNTY	LEA	WILDCAT	STATE	NM
OPR	MINERALS INC.		API NO	21746
NO	1	LEAS	Llano "33" State	MAP
	Sec 33, T21S, R34E		COORD	
	1980 FSL, 1980 FEL of Sec		7-2-39 NM	
	18 m SE/Halfway		Re SPD 2-23-81 Re MP 3-14-81	
CSC	WELL CLASS: INIT WPX FIN PD LSE CODE			
13 3/8-375-400 sx	FORMATION	DATUM	FORMATION	DATUM
9 5/8-5706-1300 sx				
7-11,900-650 sx				
4 1/2-lnr-11,396-13,382-225	sx			
2 7/8-11,394				
	ID	13,403 (CSTR)	PBD	12,902
IP (Atoka) Perfs 12,851-857 CAOF 1450 MCFGPD. GOR 144,000; gty (Gas) .6428 (Cond) 64; SIWHP 2725; STBHP 2738				
P.L.C. Phillips Petroleum Co.				
CONTR	OPR	SEES	3656 DF	sub-e

F.R.C. 7-11-81 OWWO
 PD 12,900 WO (Atoka)
 (Orig. Sinclair Oil & Gas Co., #2 South Wilson
 Deep Unit, Comp 6-30-66 thru (Bone Spring) Perfs
 10,675-711, OTD 13,403, OPB 13,350; OWWO & Re-cmp
 11-29-66 thru (Morrow) Perfs 13,029-252, OTD
 13,403, OPB 13,350)
 7-6-81 TD 13,403; PBD 12,902; Complete
 PB to 12,902
 Perf (Atoka) 12,851-857 w/13 shots (overall)
 Natural
 (Atoka) FOUR POINT GAUGES:
 Flwd 880 MCFGPD, chk NR, 1440 mins, TP 2125
 Flwd 940 MCFGPD, chk NR, 1440 mins, TP 760
 Flwd 870 MCFGPD, chk NR, 1440 mins, TP 450
 Flwd 1450 MCFGPD, chk NR, 1440 mins, TP 350
 7-2-39 NM

LEA
MINERALS INC.

Wildcat
1 Llano "33" State
Sec 33, T21S, R34E

NM
Page #2

7-6-81

Continued

Atoka Discovery in the Grama Ridge Field

LOG TOPS: Atoka 12,056, Morrow Clastics
12,919

LOG RUN: PDC

BHT 170 deg @ 12,851

7-11-81

COMPLETION ISSUED

7-2-39 NM

IC 30-025-70338-81

COUNTY LEA FIELD Grama Ridge STATE NM
OPR MINERALS INC. API MN 21746
NO 1 LEASE Llano "33" State MAP
Sec 33, T21S, R34E COORD
1980 FSL, 1980 FEL of Sec 8-4-39 NM
18 mi SE/Halfway Re SPD 6-1-81 Re CMP 7-31-81

CSC	WELL CLASS. INITDX FIN DO LSE. CODE			
	FORMATION	DATUM	FORMATION	DATUM
13 3/8-375-400 sx				
9 5/8-5706-1300 sx				
7-11,900-650 sx				
4 1/2-1nr-11,396-13,382-225 sx				
	TD 13,403 (CSTR)		PRD 11,340	

IP (Bone Spring) Perfs 10,663-712 P 55 BOPD + 17 BW. Pot
based on 24 hr test. GOR 2545; gty (NR)

CONTR OPERATE 3656 DF sub-s

8-17-81 F.R.C. 8-22-81 OWWO
PD 11,340 WO (Bone Spring)
(Orig. Sinclair Oil & Gas Co., #2 South
Deep Unit, Comp 6-30-66 thru (Bone Spring) Perfs
10,675-711, OTD 13,403, C 13,350; 11,340 &
Re-comp 11-29-66 thru (Morrison) Perfs 11,029-252,
OTD 13,403, OPB 13,350; OWWO Minerals, Inc.,
#1 Llano "33" State & Re-comp 11-24-81 thru
(Atoka) Perfs 12,851-857, OTD 13,403, OPB 12,902)
TD 13,403; PRD 11,340; Completed
BP @ 12,155
Perf (Strawn) @ 11,760, 11,763, 11,768, 11,775,
11,784, 11,793, 11,801-802, 11,812-814, 11,840-
850, 11,873-875, 11,880-882, 11,893, 11,899,
11,901-914
Acid (11,760-914) 10,000 gals
Swbd drv w/NS (11,760- 14) 8-4-39 NM

LEA
MINERALS INC.

Grama Ridge
Llano "33" State
Sec 33, T21S, R34E

NM
Page #2

8-17-81 Continued
FB to 11,340
Perf (Bone Spring) @ 10,663, 10,672, 10,674,
10,682, 10,689, 10,697, 10,698, 10,703,
10,710, 10,712
Acid (10,663-712) 3000 gals
8-22-81 COMPLETION ISSUED

8-4-39 NM
IC 30-025-70436-81

COUNTY <u>DEA</u>		FIELD <u>Wildcat</u>		STATE <u>NM</u>	
CPR <u>SEMPRANT OIL & GAS COMPANY</u>				MAP	
<u>2 South Wilson Deer Unit</u>					
<u>Sec. 32, T-21-S, R-24-E</u>				CO-ORD	
<u>1980' ESE, 1980' EEL of Sec.</u>				<u>MN 21746</u>	
<u>Snd 3-5-66</u>		CLASS		EL	
<u>Grn 6-30-66</u>					
		FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING					
13 3/8" 375' 400					
9 5/8" 5700' 100					
7" 1100'					
4 1/2" Lin 1100'-13380' 105					
LOGS EL GR RA IND HC A					
		ED 13403'		EED 13350'	

IP Bone Spring Series 10615-111' Plwd 285 EOPD. Pot. Based on 18 hr test of 214 30 thro "34" chs. IP 1800#, Gravity 42.8, GOR 621.

Distribution limited and publication prohibited by subscribers' agreement.
Reproduction rights reserved by Williams & Lee Scouting Service, Inc.

CONT. <u>McFarland Drig. Co.</u>	PROP DEPTH <u>13,400'</u>	TYPE
DATE		

S.R. 3-31-66
ED 13,400' - Morrow
Contractor - McFarland
5-11-66 AMEND OPERATOR: Formerly reported as S&WELL
OIL COMPANY
10-17-66 AMEND TO SHOW CORRECTED 4 1/2" liner.
(Reported in error on completion ticket only)

7-5-66 Cont.
Perf (Bone Spring) @ 10675', 10682', 10689',
10698', 10703', 10708', 10711' W/1 SPI
Acid (10675-711') 300 gals @ 4600-5600#
IR 17.6 BPM

7-11-66 TD 13403', PBD 13350', WO Morrow Potential.

10-10-66 TD 13403', PBD 13350', COMPLETE.
LOG TOPS: Delaware Mountain 5510', Bone
Spring 8325', Wolfcamp 11314', Des Moines
11741'.
(Morrow Zone 13173-252' will not be potentialled
at this time. ERC will be issued to show
Morrow potential when filed)

COUNTY	LEA	FIELD	Willcat	STATE	NM
OPR	SINCLAIR OIL & GAS COMPANY				MAP
	2 South Wilson Deer Unit				
	Sec. 33, T-21-S, R-34-E				CO-ORD
	1980' FSL, 1980' FEL of Sec.				MN 21746
	Spd 3-5-66				CLASS
	Cmp 6-30-66				
	FORMATION	DATUM	FORMATION	DATUM	
CSG & SX - TUBING					
13 3/8" 375' 400					
9 5/8" 5706' 1300					
7" 11900'					
4 1/2" lnr 11396-13582' 225					
LOGS EL GR RA IND HC A					
	TD 13403', PED 13350'				

IP Bone Spring Perfs 10675-711' Fld 285 BOFD. Pot. Based on 18 hr test of 214 BO thru 7/64" chk., TP 1800#, Gravity 42.8, GOR 650.

Distribution limited and publication prohibited by subscribers' agreement.
Reproduction rights reserved by Williams & Lee Scouting Service, Inc.

CONT McFarland Drlg. Co. PROP DEPTH 13,400' TYPE
DATE

F.R. 3-31-66
PD 13,400' - Morrow

5-12-66 AMEND OPERATOR: Formerly reported as SHELL OIL COMPANY.

3-29-66 Drlg. 9760'.

4-4-66 Drlg. 10926'.
Well kicked while drilling 10669-708' & rec oil in pits.

4-11-66 TD 11900', prep log.

4-18-66 Drlg. 12016'.

4-25-66 Drlg. 12270'.

5-2-66 Drlg. 12550'.

5-9-66 Drlg. 12744'.

5-16-66 Drlg. 12983'.

5-23-66 Drlg. 13189'.
DST (Morrow) 12797-13060', open 3 hrs 5 mins, GTS 20 mins @ 562 MCFGPD, increased to 609 MCFGPD,

5-23-66 Cont.
 Rec 150 mud & cond., 110' GC Cond.
 1 hr 30 min ISIP 7880#, FP 2648-2590#,
 3 hr FSEP 7042#, HP 8567-8507#.

5-31-66 TD 13403', prep to drill cement.

6-6-66 TD 13403', PBD 13350', MORT.

6-13-66 TD 13403', PBD 13350', prep to drill cmt.
 Perf @ 13143', 13145', 13146', 13148',
 W/1 SPI
 Swbd & Flwd 34 BW/16 hrs + gas @ 400
 MCFCGPD (13143-148')

6-20-66 TD 13403', PBD 13350', tstg.
 Perf (Morrow) @ 13245', 13247', 13249',
 13252' W/1 SPI
 Flwd @ 5 MMFCGPD + 13 B Cond. + 3 BWPH
 thru 39/64" chk., TP 1500# (13245-252')

 Perf (Morrow) @ 13173', 13178', 13180',
 13182', 13184', 13187', 13190', 13195',
 13198' W/1 SPI
 Flwd @ 4.1 MMFCGPD + 63 B Cond. + 50 BW
 in 11 hrs thru 39/64" chk., TP 1300#
 (13173-252')

6-27-66 TD 13403', PBD 13350', prep to perf Bone
 Spring.
 Perf (Morrow) @ 13173', 13174', 13175',
 13178', 13180', 13182', 13184', 13186',
 13190', 13195', 13198', 13246', 13248',
 13250', 13251' W/1 SPI

7-5-66 TD 13403', PBD 13350', SI BHP.
 Flwd gas @ 3.9 MMFCGPD + 6 B Cond. + 4
 BWPH for 3 hrs thru 32/64" chk., TP 1000#
 (13173-252')

COUNTY LEA FIELD Grama Ridge STATE NM OWWO
 OPR SINCLAIR OIL & GAS CO. MAP _____
2 South Wilson Deep Unit
 Sec. 33, T-21-S, R-34-E CO-ORD _____
 1980' FSL, 1980' FEL of Sec.

Re-Cmp 11-29-66	CLASS		EL	
	FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING				
13 3/8" 375' 400				
9 5/8" 5706' 1300				
7" 11900' 650				
4 1/2" lnr 11396-13382' 225				
LOGS EL GR RA IND HC A				
TD 13403', PBD 13350'				

LP Morrow Perfs 13029-252' CAOF 4.635 MMCFGPD + 5.5 B Cond.
 Per Million CFG. Thru 24/64" chk., TP 1085#, Gravity (Cond.)
 50.5, Gravity (Gas) .628.

Distribution limited and publication prohibited by subscribers' agreement.
 Reproduction rights reserved by Williams & Lee Scouting Service, Inc.

CCNT. _____ PROP DEPTH _____ TYPE NO
 DATE _____

F.R.C. 3-9-67; OWWO
 (Orig. cmp 6-30-66 from Bone Springs perfs
 10675-10711', OTD 13403')
 3-6-67 TD 13403', PBD 13350', COMPLETE.
 Squeezed (10675-10711') w/150 sx.
 Drld out to 13350'
 Perf (Morrow) @ 13031', 13036', 13038',
 13039', 13042', 13045', 13051', 13061',
 13064', 13066', 13068', 13072', 13075',
 13077' w/1 SPI
 Flwd 4.3 MMCFGPD + 37 B Cond. in 20 hrs
 thru 48/64" chk., TP 850#.

3-6-67

Cont.

Perf @ 13061', 13065', 13067', 13069',
13073', 13075', 13077' W/1 SPI
Perf @ 13029', 13034', 13036', 13038',
13040', 13042', 13045', 13051';
13246', 13248', 13250', 13252' W/2 SPI
DST 12797-13060', open 5 hrs 5 mins,
GTS 20 mins,
Flwd 5.62 MMCFGPD in 1 hr, TP 1600#;
Flwd 5.901 MMCFGPD in 1 hr, TP 1325#;
Flwd 6.001 MMCFGPD in 1 hr 15 mins, TP 1100#;
Flwd 6.098 MMCFGPD in 45 mins, TP 1065#;
1 hr 30 min ESIP 7830#, FP 2548-2590#,
3 hr ESIP 7042#.
(Choke size not reported)
(4-pt test calculated from above DST)

COUNTY	LEA	FIELD	Wilson, South	STATE	NM
OPR	SINCLAIR OIL & GAS CO.				MAP
	2 South Wilson Deep Unit				
	Sec. 33, T-21-S, R-34-E				CO-ORD
	1980' FSL, 1980' FEL of Sec.				MN 21746
		CLASS		EL	
	FORMATION	DATUM	FORMATION	DATUM	
CSG & SX - TUBING					
LOGS	EL	GR	RA	IND	HC A

Distribution limited and publication prohibited by subscribers' agreement.
Reproduction rights reserved by Williams & Lee Scouting Service, Inc.

CONT.	PROP DEPTH 13,400'	TYPE
DATE		

F.R. 3-31-66
PD 13,400' - Morrow
Contr. - McFarland
5-12-66 AMEND OPERATOR: Formerly SHELL OIL COMPANY.