

|                        |                                  |       |                 |       |        |
|------------------------|----------------------------------|-------|-----------------|-------|--------|
| COUNTY                 | LEA                              | FIELD | Hightower, East | STATE | NM     |
| OPR                    | SHELL OIL COMPANY                |       |                 |       | MAP    |
|                        | 1 State HCA                      |       |                 |       |        |
|                        | Sec. 36, T-12-S, R-33-E          |       |                 |       | CO-ORD |
|                        | 660' fr NL & 1980' fr EL of Sec. |       |                 |       |        |
|                        | Spd 10-3-65                      |       |                 |       | CLASS  |
|                        | Cmp 12-4-65                      |       |                 |       | EL     |
|                        | FORMATION                        | DATUM | FORMATION       | DATUM |        |
| CSG & SX - TUBING      |                                  |       |                 |       |        |
| 11 3/4" 315' 315       |                                  |       |                 |       |        |
| 8 5/8" 4150' 300       |                                  |       |                 |       |        |
| 4 1/2" 10335' 1550     |                                  |       |                 |       |        |
| LOGS EL GR RA IND HC A |                                  |       |                 |       |        |
|                        | TD 10335', PBD 9928'             |       |                 |       |        |

IP Permo-Pennsylvanian Perfs 9816-82' Pmpd 217 BOPD + 187 BW.  
Pot. Based on 24 hr test, gravity 48.5, GOR 687.

|                                                                                                                                                     |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
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| CONT. Cactus Drlg. Co.                                                                                                                              | PROP DEPTH 10,330' TYPE |
| DATE                                                                                                                                                |                         |

F.R. 9-30-65  
PD 10,330' - Pennsylvanian  
Contractor - Cactus  
10-11-65 Drlg. 4001'.  
11 3/4" casing @ 315' W/315 sx.  
10-18-65 Drlg. 5823'.  
8 5/8" casing @ 4150' W/300 sx.  
10-25-65 Drlg. 8140'.  
11-1-65 Drlg. 9135'.  
11-8-65 TD 9905', rng DST.  
11-15-65 Drlg. 10308'.  
DST 9812-9905', open 2 hrs 23 mins,  
GTS 8 mins @ 340 MCFGPD decreasing to  
73 MCFGPD @ end of test,  
Rev out & Rec Est. 35 BF (25% wtr)  
1 hr 30 min ISIP 3316#, FP 640-2125#,  
2 hr FSIP 2944#.

11-15-65 Continued  
Cored 10127-164', rec 37' being:  
33' shly lm., w/sli bldg oil; 4' sh.  
Cored 10164-212', rec 48' being:  
31' dense lm., w/sli bldg oil from frac  
in 3'; 5' sh; 12' cherty lm.  
Cored 10212-227', rec 13½' being:  
11' dense lm; 2½' sh.  
11-22-65 TD 10335', PBD 9928', swbg.  
4½" casing @ 10335' W/1550 sx.  
Spotted 350 gals acid  
Perf 9816-22', 9828', 9829', 9833', 9862',  
9863', 9865', 9874-77', 9880-82' W/1 SPF  
Perf 10247-249', 10281-286' W/2 SPF  
Ac. (10247-286') 1000 gals.  
Form. broke @ 5600#; Inj @ 3/4 BPM

Swbd 4.5 BFPH (5% oil) (10247-286')  
Set BP @ 9928'  
Ac. (9816-82') 5000 gals.  
Form. broke @ 5900#; Inj @ 2-3/4 BPM  
Swbd 16 BO + 300 BW/26 hrs (9816-82')  
11-29-65 TD 10335', PBD 9928', swbg.  
Swbd 19 BO + 66 BW/8 hrs (9862-82')  
Swbd 33 BW/6 hrs & swbd dry (9816-33')  
Re-Ac. (9816-33') 2000 gals.  
Form. broke @ 4800#; Inj @ 1/2 BPM  
Swbd 20 BO + 104 BW/10 hrs (9816-33')  
12-6-65 TD 10335', PBD 9928', RU Pump.  
12-13-65 TD 10335', PBD 9928', WO Potential.  
Pmpd 217 BO + 187 BW/24 hrs.  
12-20-65 TD 10335', PBD 9928', COMPLETED  
LOG TOPS: Wolfcamp 9144', Bough "A"  
9828', Bough "H" 10202 (-5969')