

COMPLETIONS
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30-025-30660-0000 PAGE 3

HIGHLAND PROD
1

MCDONALD FEDERAL

D DO

DRILLING PROGRESS DETAILS

PROD ZONE - DELAWARE 4415-4440
(OPENHOLE)
NO CORES OR DSTS RPTD

WRS COMPLETION REPORT

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NMEX LEA * 2310FSL 990FEL SEC NE SE
STATE COUNTY FOOTAGE SPOT
HIGHLAND PROD D DO
OPERATOR WELL CLASS INIT FIN
1 MCDONALD FEDERAL
WELL NO. LEASE NAME
3146GR MASON E
OPER ELE/ FIELD POOL AREA
API 30-025-30660-0000
LEASE NO. PERMIT OR WELL I.D. NO.
09/22/1989 11/02/1989 ROTARY VERT OIL
SPUD DATE COMP DATE TYPE TOOL HOLE TYPE STATUS
470C DELAWARE CAPSTAR 3
PROJ. DEPTH PROJ. FORM CONTRACTOR FM/TD DELWR LM
DTD 4440
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

36 MI S HALFWAY, NM

CASING/LINER DATA

CSG 8 5/8 @ 983 W/ 550 SACKS
CSG 5 1/2 @ 4415 W/ 950 SACKS

TUBING DATA

TBG 2 3/8 AT 4376

INITIAL POTENTIAL

IPP 4BOPD 20 MCFD 30BW 24HRS
DELWR LM OPENHOLE 4415- 4440
GOR 5000 GTY 40.75
FIELD /RESERVOIR
/DELAWARE

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	RUSTLER		1100 2046	
LOG	SALADO		1410 1736	
LOG	CASTILE		2415 731	
LOG	SALT		3030 116	
LOG	LAMAR SH		4165 -1019	
LOG	DELWR LM		4320 -1174	

SUBSEA MEASUREMENTS FROM GR

CONTINUED IC# 300257020689

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Petroleum Information

PI-WRS-GE1
Form No 187

DB a company of
The Dun & Bradstreet Corporation

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PRODUCTION TEST DATA

PTP 4BOPD 20 MCFD 30BW 24-HRS
DELWR LM OPENHOLE 4415- 4440
OPEN 4415- 4440 14539GALS 30000LBS SAND
SOFR 4415- 4440 14382 GALS OIL
157 GALS GEL ADDTVGELA

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS

GRNL

DRILLING PROGRESS DETAILS

HIGHLAND PROD
810 N DIXIE BLVD STE 202
ODESSA, TX 79761
915-563-1037
07/28 LOC/1989/
09/27 DRLG 2755
10/03 4415 TD, PREP DEEPEN
10/10 4440 TD, PREP TEST
10/10 DEEPENED 4415 TO 4440
DEVIATION SURVEYS @ 485 (3/4 DEG), 983 (2 DEG),
1313 (2 DEG), 1592 (2 1/2 DEG), 1871 (2 1/4 DEG),
2055 (2 DEG), 2333 (1 1/4 DEG), 2824 (2 DEG),
3316 (2 DEG), 3804 (2 1/2 DEG), 4301 (5 DEG),
4415 (5 DEG)
10/17 TOTAL DISPLACEMENT 180.32 FT @ 4415
10/27 4440 TD, SI
11/09 4440 TD, PREP POP
01/17 4440 TD, TOP
01/23 4440 TD, WOPT
SUMMARY OF POROUS ZONE:
95% SS, LT GRY TO GRY SLI SHLY, SLI CALC, SLI
LAM W/BLK SHL, SLTY. 80% GD TO FAIR OIL FLU,
SL CUT WHEN CRUSHED. 5% SHL, BLK SLTY.
BAILED RBSO W/SWEET GAS ODR.
RIG REL 10/01/89
01/23 4400 TD
COMP 11/2/89, IPP 4 BO, 20 MCFG, 30 BWPD,
GOR 5000, GTY 40.75

CONTINUED