

WRS COMPLETION REPORT

REISSUES SEC 23 TWP 19S RGE 33E
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NMEX LEA * 1650FSL 1650FEL SEC NW SE
STATE COUNTY FOOTAGE SPOT
MITCHELL ENERGY WD DG
OPERATOR WELL CLASS INIT FIN

1 SAPHIRE FEDERAL
WELL NO. LEASE NAME

3661KB 3639GR GEM E
OPER ELEV FIELD POOL AREA

API 30-025-30510-0000
LEASE NO. PERMIT OR WELL ID NO.

12/30/1988 03/10/1989 ROTARY VERT GAS
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS

13600 MORROW TMBR SHARP DRLG 65 RIG SUB 20
PROJ. DEPTH PROJ. FORM CONTRACTOR

DTD 13600 PB 13555 FM/TD MORROW
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

9 MI NE HALFWAY, NM

CASING/LINER DATA

CSG 13 3/8 @ 475 W/ 450 SACKS
CSG 8 5/8 @ 5230 W/ 3100 SACKS
CSG 5 1/2 @ 13598 W/ 1750 SACKS

TUBING DATA

TBG 2 3/8 AT 13086

INITIAL POTENTIAL

IPF 8BOPD 11520 MCFD 22/64CK 24HRS
MORROW PERF W/ 231/IT 13226-13450 GROSS
TP 3905
GTY 54.3 GOR 1423000
POT BASED ON 1 HR TEST, FLWD .3 BO + 480 MCFG
FCP PKR

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	RUSTLER		1435 2226	
LOG	SALT			2970 691
LOG	YATES		3365 296	
LOG	SVN RVRS		3460 201	
LOG	QUEEN		4330 -669	
LOG	DELWR SD		5380 -1719	

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Petroleum Information

PI-WRS
Form N.

BB a company of
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MITCHELL ENERGY
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SAPPHIRE FEDERAL

WD DG

TYPE	FORMATION	LTH	TOP	DEPTH/SUB	BSE	DEPTH/SUB
LOG	BONE SPG		8020	-4359		
LOG	BONE SP1 SS		9230	-5569		
LOG	BONE SP3 SS		10556	-6895		
LOG	WOLFCAMP		10969	-7308		
LOG	STRAWN		12089	-8428		
LOG	ATOKA		12424	-8763		
LOG	MORROW		12661	-9000		

SUBSEA MEASUREMENTS FROM KB

CORES

#SPL 2 7342-7453 REC 2 SP DELWR SD SDWL D
 NO DESCRIPTION AVAILABLE
 * 7342.0F ,
 * 7453.0F ,

#SPL 5 9257-10510 REC 5 SP BONE SP1 SDWL D
 NO DESCRIPTION AVAILABLE
 * 9257.0F ,
 * 9290.0F ,
 * 10043.0F ,
 * 10047.0F ,
 * 10510.0F ,

#SPL 2 11153-11327 REC 2 SP WOLFCAMP SDWL D
 NO DESCRIPTION AVAILABLE
 * 11153.0F ,
 * 11327.0F ,

#SPL 4 13137-13445 REC 4 SP MORROW SDWL D
 NO DESCRIPTION AVAILABLE
 * 13137.0F ,
 * 13264.0F ,
 * 13288.0F ,
 * 13445.0F ,

FORMATION TEST DATA

DST	1	7189-7265	DELWR	SD	
REC	260.0 FT	HG&SOCM	600.0 CC	MUD	
REC	40.0 CC	OIL	60.0 CC	O&GCM	
REC	.4 CFT	GAS			

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MITCHELL ENERGY WD DG
1 SAPPHIRE FEDERAL

DRILLING PROGRESS DETAILS

COMP 3/10/89, IPF 8 BO, 11520 MCFGPD,
22/64 CHK, GOR 1423000, GTY
54.3, FTP 3905, FCP PKR
PROD ZONE - MORROW 13226-13450
01/30 NO CORES, THREE DSTS, 13 SDWL CORES RPTD
REISSUED TO CORRECT IP, NO CORES STMT &
ADD DSTS
03/06 REPLACEMENT FOR CT ISSUED 8/31/89
REISSUED TO CORRECT DSTS, IP & ADD PROD
TEST NARRATIVE
REPLACEMENT FOR CT ISSUED 2/2/90

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SAPPHIRE FEDERAL

WD DG

FORMATION TEST DATA

INIT OP 30M IFP 184 FFP 126
FINAL OP 1H IFP 225 FFP 162 BHT 107F
ISIP 238 1H FSIP 414 2H 5M IHP 3475 FHP 3471
SPL CHAM PRESS FINAL 70
WS 78000 PPM CL RES .072 @ 60F
SPL REC .42 CFT GAS
RM = .072 @ 60 DEG F

DST 2 11150-11175 WOLFCAMP S
REC 533.0 FT OIL 59.0 FT HO&GCM
REC 560.0 CC OIL 440.0 CC O&GCM
INIT OP 30M IFP 195 FFP 168
FINAL OP 1H IFP 307 FFP 254 BHT 142F
ISIP 4430 1H FSIP 5736 3H IHP 5744 FHP 5748
GTY 35.0
OIL GTY 35 DEG, API 60 DEG F

DST 3 11322-11347 WOLFCAMP S
REC 5413.0 FT GAS 100.0 FT O&GCW
REC 100.0 FT O&GCM .0 CFT GAS
REC 200.0 CC MUD 140.0 CC WTR
REC 660.0 CC OIL
INIT OP 30M IFP 103 FFP 47
FINAL OP 1H IFP 90 FFP 49 BHT 142F
ISIP 3975 1H FSIP 3956 3H IHP 5859 FHP 5859
GTY 40.0 WS110000 PPM CL RES .055 @ 60F

MUD RES .050 @ 60F
SPL REC .02 CFT GAS + 660 CC OIL @ 0 PSI
CHL (BTM DP SAMPLE) 110000 PPM, RW = .055 @ 60 DEG F
CHL (PIT MUD) 148000 PPM, RW = .050 @ 60 DEG F
CHL (SAMPLER WTR) 139000 PPM, RW = .05 @ 60 DEG F
OIL (SAMPLER) 40 DEG, API @ 60 DEG F

PRODUCTION TEST DATA

MORROW PERF W/ 231/IT 13226-13450 GROSS
PERF 13226-13235 13244-13248 13250-13256 13261-13290
PERF 13421-13426 13440-13450
NATURAL
OPERATOR RPTD TO PI A CAO OF 119000 MCFGPD, 4-PT

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MITCHELL ENERGY
1 SAPPHERE FEDERAL

WD DG

PRODUCTION TEST DATA

GAUGES NOT FILED W/NM OCD

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS 9200-11400	CBL	13000-13570	CBL	6650- 7900	CCL
LOGS 13000-13570	CCL	6650- 7900	GR	9200-11400	GR
LOGS	DLL		MSFL		FDC
LOGS	CNL				

DRILLING PROGRESS DETAILS

MITCHELL ENERGY
200 N LORAIN STE 1000
MIDLAND, TX 79701
915-682-5396
LOC/1988/
08/12 DRLG, NO DETAILS
01/04 DRLG, NO DETAILS
01/12 DRLG, NO DETAILS
01/17 DRLG, NO DETAILS
01/24 DRLG, NO DETAILS
01/31 DRLG, NO DETAILS
02/09 DRLG, NO DETAILS
02/15 DRLG, NO DETAILS
02/23 13600 TD, WOCT
03/21 13600 TD, PB 13555, WO GAS CONTRACT
07/20 13600 TD, PB 13555, WO GAS CONTRACT
08/23 DEV SURVEYS @ 140 (.75 DEG), 475 (1.25 DEG), 980
(.50 DEG), 1480 (1.50 DEG), 2011 (1.00 DEG),
2570 (3.00 DEG), 2664 (2.25 DEG), 2818 (2.25
DEG), 2976 (2.00 DEG), 3143 (1.50 DEG), 3236
(1.50 DEG), 3394 (1.50 DEG), 3471 (1.00 DEG),
3646 (1.25 DEG), 3843 (.75 DEG), 4058 (1.00 DEG)
4267 (1.25 DEG), 4514 (1.00 DEG), 4868 (.25 DEG)
5230 (.50 DEG), 5619 (1.25 DEG), 6100 (1.75 DEG)
6531 (1.25 DEG), 7020 (1.75 DEG), 7260 (1.25
DEG), 7775 (.75 DEG), 8275 (1.75 DEG), 8770
(1.75 DEG), 9289 (2.00 DEG), 9773 (1.00 DEG),
10271 (.25 DEG), 10880 (1.50 DEG), 11150 (.25
DEG), 11345 (.25 DEG), 11803 (.50 DEG), 12255
(1.25 DEG), 12795 (.75 DEG), 13600 (.25 DEG)
TD REACHED 02/18/89 RIG REL 02/22/89
08/23 13600 TD, PB 13555

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