

Foundation Energy Management, LLC

WELLBORE DIAGRAM

Well / Battery	Prospect Name		Total Depth	Current Status
State 36-16	DOC III/IV		6,970'	PR
Location	Sec-Twn-Rng		Producing Horizon	County & State
SESE	36-8N-60W		DSND	Weld, CO

CURRENT - WELLBORE DIAGRAM

Prepared Date: 1/10/2019

Prepared By: Adam Johnson

General Info

API #: 05-123-20908

KB Elevation: 4,946'

GL Elevation: 4936'

Spud Date: 6-11-2002

Completion Date: 10/15/2002

TVD: 6,970'

MD: 6,970

Last PBTD: 6874' (8/25/18)

Tubing Detail

2-3/8" inch(OD)

4.7 # (weight)

J-55 grade

Tubing Tally

	Length	Depth
KB corrected	8	8
211 jts 2-3/8" tbg	6618	6626
4-1/2" x 2-3/8" TAC	4	6630
6 jts 2-3/8" tbg	185	6815
SN	1	6816
1 - 4' perf sub	4	6820
1 jt 2-3/8" MA	22	6842

Formations Tops:

Formation	MD'	SS'
Laramie	0	4936
Sharron Springs	6027	-1091
Niobrara A	6095	-1159
Fort Hayes	6330	-1394
Codell	6380	-1444
X Bentonite	6708	-1772
Graneros	6762	-1826
Dakota D	6819	-1883
Mowry	6890	-1954
Dakota J	6905	-1969

Pierre Shale Top not visible on Gamma Ray log

Well Notes:

refrac'ed on 8/24/18

Surface Casing

8-5/8" inch (OD)

24 # (weight)

N-24 grade

436 depth from KB

Surface cement top

350 sacks of cement

12-1/4" inch (OD) HOLE SIZE

Visual Returns

Rod Design

	length	depth
Polish Rod	22	20
4' sub - 7/8"	4	24
81 - 7/8" rods	2025	2049
181 - 3/4" rods	4525	6574
4 - 7/8" rods	100	6674
1 1/2"x20' pump	20	6694

Production Casing

4-1/2" inch (OD)

11.60 # (weight)

J-55 grade

6,969' depth from KB

5,930' cement top

200 sacks of cement

7-7/8" inch (OD) HOLE SIZE

CBL

TAC @ 6,630'

Open Perforations

6,820' - 6,840'

DSND

48 holes - .375

6,874'

PBTD: 6874' (8/25/18)

6,969'

CASING AND CASING SHOE RAN DOWN TO