

Company Western Oil & Refining

Farm T.E. Hubbard

No. 1

23-33-1W
Sec. 23 T.33 R. 1W

Loc. NE. Cor. SW $\frac{1}{4}$

County Sumner

Total Depth 2570'

Comm.

Comp.

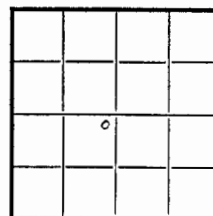
Shot or Treated

Contractor

Issued

Casing

20 in. 7/	10 in 1626
15 1/2 367	8 1/4 2312
12 1/2 1104	6 5/8
13 3/8	5 3/16



Elevation 1223'

Production D.&A.

Figures Indicate Bottom of Formation

Surface	15	lime	1098
quicksand	35	(12 1/2" at 1104' and UR to 1330')	
red bed	45	black slate	1112
quicksand	65	lime	1118
blue shale	230	blue slate	1140
(20" at 72')		lime	1143
red slate	235	blue slate	1150
blue slate	276	lime	1158
lime	278	broken slate	1170
blue shale	376	(water)	
(15 1/2" at 368')		lime	1180 23W
lime	389	red	1205
shale	400	lime	1215
lime	423	blue shale	1245
slate	440	broken shale	1258
lime	470	lime	1265
slate	485	broken shale HFW	1305
lime	495	lime	1315
slate	517	blue slate	1330
broken lime	590	lime	1334
small amt. of gas at	564	white slate	1340
blue slate	603	lime	1381
pink slate	625	broken slate	1391
blue slate	700	lime	1405
broken lime	730	slate	1408
broken shale	775	lime	1415
lime	790	blue slate	1460
broken lime	842	lime	1470
white slate	852	blue slate	1487
broken lime	880	lime HFW	1492
water sand	900	sand	1515
broken lime	930	blue slate	1530
blue slate	950	lime	1535
red shale	972	blue slate	1540
blue slate	977	sand	1550
lime (hard water)	985	blue slate	1558
sand	992	lime	1560
lime	1000	red	1565
blue slate	1010	blue slate	1588
red	1025	sand	1596
lime	1032	blue slate	1615
black shale	1060	(10" at 1626')	
lime	1085	sand	1628
blue slate	1090	blue slate	1640
red	1095	lime	1642

Company

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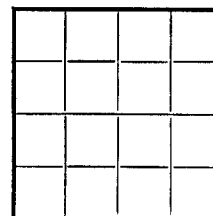
Shot or Treated

Contractor

Issued

Casing

20 in.	10 in
15 1/2	8 1/4
12 1/2	6 5/8
13 3/8	5 3/16



Elevation

Production D. & A.

(cont)

Figures Indicate Bottom of Formation

brown shale	1667	lime	2422
lime	1670	brown shale	2464
broken shale	1675	sand	2470
lime	1683	blue slate	2485
brown shale	1718	brown shale	2490
lime	1723	pink slate	2515
brown shale	1740	lime	2518
lime	1745	pink slate	2560
brown shale	1764	sand water	2565
lime (water)	1793	redd	2570
brown shale	1820		
white shale	1847		
(5 BW)			
sand	1874		
brwon shale	1894		
lime	1897		
brown shale	1920		
lime	1924		
blue slate	1930		
sand	1935		
lime	2000		
brown shale	2004		
lime	2012		
brown shale	2017		
blue slate	2132		
lime	2040		
brown shale	2044		
lime	2090		
blue slate	2093		
lime	2185		
sand (water)	2200		
lime	2210		
brown shale	2212		
lime	2237		
(water at 2200')			
brown shale	2239		
hard lime	2264		
sand	2274		
lime	2281		
light shale	2285		
lime	2290		
brokenlime	2308		
(8 14" at 2312')			

T.D. 2570'
D.&A.