

WELL RECORDCompany M.S.B.W.Co. Address Astec, New MexicoSend correspondence to Robert L. Maddox Address Box 182, Astec, New MexicoHargis Well No. 1 in NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 33, T. 30N.R. 12 West, N.M.P.M., Fulcher Basin Oil Field San Juan County.

If State land the oil and gas lease is No. _____ Assignment No. _____.

If patented land the owner is John C. Hargis, Address Astec, New MexicoThe lessee is Robert L. Maddox, Address Astec, New Mexico

If not state or patented land, give status _____

Drilling commenced September 15th 1944 Drilling was completed Sept. 25, 1945Name of Drilling contractor Joe D. Turner, Address Albuquerque, N. M.Elevation above sea level at top of casing 5610 feet.The information given is to be kept confidential until noneIMPORTANT WATER SANDSNo. 1, from 20 ft. to 40 ft. No. 3, from 1651 to Top of Fruitland CoalNo. 2 from 772 to 780 No. 4 from _____ to _____OIL SANDS OR ZONES

No. 1, from None to _____ No. 4, from None to _____

No. 2, from None to _____ No. 5, from None to _____

No. 3, from None to _____ No. 6, from None to _____

CASING RECORD

<u>Size</u>	<u>Weight per foot</u>	<u>Threads per inch</u>	<u>Make</u>	<u>Amount</u>	<u>Kind of Shoe</u>	<u>Cut & Filled From</u>	<u>Perforated From To</u>	<u>Purpose</u>
12 $\frac{1}{2}$	48	10	Nat'l.	40'	Texas			
10 $\frac{1}{4}$	32.75	8	"	476'	Texas			
8	32	8	"	1520'	"			
7	20	8	"	1700	"			
5 $\frac{1}{2}$	14	8	"	65	Baker			

MUDDING & CEMENTING RECORD

<u>Size</u>	<u>Where Set</u>	<u>No Sacks of Cement</u>	<u>Method used</u>	<u>Mud Gravity</u>	<u>Amount of Mud used</u>
12 $\frac{1}{2}$	40	10	Haliburton		
7	1700	50	Haliburton		
5 $\frac{1}{2}$	65 feet liner 15		Haliburton		

PLUGS AND ADAPTERS

Heaving plug -- Material _____ Length _____ Depth Set _____

Adapters -- Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Dated	Depth Shot	Depth Cleaned Out
-	-----	-----	--	--	----	-----

Tools used

Rotary tools were used from _____ ft. to _____ ft. and from _____ ft. to _____ ft.

Cable tools were used from Surface ft. to 1808 ft. and from _____ ft. to _____ ft.

PRODUCTION

Put to producing _____ 19 ____.

The production of the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, Be _____

If gas well, cu. ft. per 24 hours 1,200,000 Gallons gasoline per 1,000 cu. ft. of gas none

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Joe D. Turner _____, Driller Al Featherstone _____, Driller

Ben Case _____, Driller Floyd West _____, Driller

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	8	8	Surface soil
8	40	32	Boulders, carrying water in bottom
40	49	9	Blue shale
49	187	138	Sand Rock (Alamo)
187	192	5	Green Shale
192	225	33	Grey Shale
225	232	7	Sandy Shale
232	303	71	Sand Rock, (Coarse grains)
303	335	32	Grey Shale
335	395	60	Sand Rock
395	539	134	Blue Shale
539	635	96	Grey Shale
635	640	5	Sand Rock
640	645	5	Grey Shale

Page _____ Date _____

$$f(\mathbf{z}) = \frac{1}{2} \mathbf{z}^T \mathbf{A} \mathbf{z} + \mathbf{b}^T \mathbf{z} + c, \quad \mathbf{z} \in \mathbb{R}^n, \quad \mathbf{A} \in \mathbb{R}^{n \times n}, \quad \mathbf{b} \in \mathbb{R}^n, \quad c \in \mathbb{R}.$$

 **Bio-Rad**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**  **bioMérieux**

15. 11. 2019

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SECRET

going to have to alter the _____ number of the draft and it is probable that

100-443887-100

11- Gas well, on W. 1/4 Sec. 16, T. 10N., R. 10E., S. 10W., M.D.

0000 233 20

_____ book pressure, 100. 100. 100.

27 JUL 2005

JOE D. LAMMER, Sheriff, _____
 _____, _____
 _____, _____

referred to the profit referred to as the

45074 2013-01-25

Section	Thickness (feet)	Color	Remarks
1. Sandstone	10	Light gray	
2. Shale	5	Dark gray	
3. Sandstone	15	Light gray	
4. Shale	10	Dark gray	
5. Sandstone	20	Light gray	
6. Shale	15	Dark gray	
7. Sandstone	10	Light gray	
8. Shale	5	Dark gray	
9. Sandstone	15	Light gray	
10. Shale	10	Dark gray	
11. Sandstone	20	Light gray	
12. Shale	15	Dark gray	
13. Sandstone	10	Light gray	
14. Shale	5	Dark gray	
15. Sandstone	15	Light gray	
16. Shale	10	Dark gray	
17. Sandstone	20	Light gray	
18. Shale	15	Dark gray	
19. Sandstone	10	Light gray	
20. Shale	5	Dark gray	

FORMATION RECORD			
FROM	TO	THICKNESS IN FEET	FORMATION
645	680	45	Sandy Shale
680	690	10	Blue Shale
690	700	10	Grey Shale
700	710	10	Sand Rock
710	772	62	Grey Shale
772	780	8	Sand Rock
780	940	160	Sandy shale
940	960	20	Sand Rock
960	1125	165	Shale
1125	1130	5	Sand Rock
1130	1302	172	Blue Shale
1302	1308	6	Brown Sandy Shale
1308	1315	7	Blue Shale
1315	1360	45	Grey Shale
1360	1385	25	Blue Shale
1385	1395	10	Dark Shale with Coal Lenses
1395	1440	45	Grey Shale
1440	1450	10	Brown Shale
1450	1460	10	Dark Shale with coal lenses
1460	1485	25	Grey Shale
1485	1500	15	Brown Shale
1500	1530	30	Blue Shale
1530	1550	20	Blue Shale with Soap stone lenses
1550	1595	45	Blue Shale with hard lime shells
1595	1605	10	Brown Shale with Coal lenses
1605	1615	10	Dark Shale with Coal lenses
1615	1634	19	Dark Shale, Caving
1634	1643	9	Light Grey Shale. Sticky
1643	1648	5	Sand and lime Shells
1648	1651	3	Bluish Grey Shale
1651	1671	20	Coal (Fruitland)
1671	1689	18	Grey Shale
1689	1693	4	Dark Shale, Show of gas
1693	1697	4	Sandy Shale More Gas
1697	1700	3	Sandy Shale and Sand. Gas
1700	1710	10	Coarse Grey Sand. Strong flow gas
1710	1712	2	Sandy Shale
1712	1720	8	Grey Sand. Gas increased about 250,000 ft
1720	1732	12	Grey Shale
1732	1738	6	Coarse Grey Sand, well Tested 1,200,000
1738	1747	9	Fine Grey Sand
1747	1753	6	Light Grey Sand
1753	1775	22	Light Grey Sand
1775	1785	10	Bluish Grey Shale
1785	1788	3	Fine Grey Sand
1788	1808 T.D.	20	Grey Shale

Section	Thickness (ft)	Top (ft)	Bottom (ft)
1. Sandstone	10	1000	990
2. Sandstone	10	990	980
3. Sandstone	10	980	970
4. Sandstone	10	970	960
5. Sandstone	10	960	950
6. Sandstone	10	950	940
7. Sandstone	10	940	930
8. Sandstone	10	930	920
9. Sandstone	10	920	910
10. Sandstone	10	910	900
11. Sandstone	10	900	890
12. Sandstone	10	890	880
13. Sandstone	10	880	870
14. Sandstone	10	870	860
15. Sandstone	10	860	850
16. Sandstone	10	850	840
17. Sandstone	10	840	830
18. Sandstone	10	830	820
19. Sandstone	10	820	810
20. Sandstone	10	810	800
21. Sandstone	10	800	790
22. Sandstone	10	790	780
23. Sandstone	10	780	770
24. Sandstone	10	770	760
25. Sandstone	10	760	750
26. Sandstone	10	750	740
27. Sandstone	10	740	730
28. Sandstone	10	730	720
29. Sandstone	10	720	710
30. Sandstone	10	710	700
31. Sandstone	10	700	690
32. Sandstone	10	690	680
33. Sandstone	10	680	670
34. Sandstone	10	670	660
35. Sandstone	10	660	650
36. Sandstone	10	650	640
37. Sandstone	10	640	630
38. Sandstone	10	630	620
39. Sandstone	10	620	610
40. Sandstone	10	610	600
41. Sandstone	10	600	590
42. Sandstone	10	590	580
43. Sandstone	10	580	570
44. Sandstone	10	570	560
45. Sandstone	10	560	550
46. Sandstone	10	550	540
47. Sandstone	10	540	530
48. Sandstone	10	530	520
49. Sandstone	10	520	510
50. Sandstone	10	510	500
51. Sandstone	10	500	490
52. Sandstone	10	490	480
53. Sandstone	10	480	470
54. Sandstone	10	470	460
55. Sandstone	10	460	450
56. Sandstone	10	450	440
57. Sandstone	10	440	430
58. Sandstone	10	430	420
59. Sandstone	10	420	410
60. Sandstone	10	410	400
61. Sandstone	10	400	390
62. Sandstone	10	390	380
63. Sandstone	10	380	370
64. Sandstone	10	370	360
65. Sandstone	10	360	350
66. Sandstone	10	350	340
67. Sandstone	10	340	330
68. Sandstone	10	330	320
69. Sandstone	10	320	310
70. Sandstone	10	310	300
71. Sandstone	10	300	290
72. Sandstone	10	290	280
73. Sandstone	10	280	270
74. Sandstone	10	270	260
75. Sandstone	10	260	250
76. Sandstone	10	250	240
77. Sandstone	10	240	230
78. Sandstone	10	230	220
79. Sandstone	10	220	210
80. Sandstone	10	210	200
81. Sandstone	10	200	190
82. Sandstone	10	190	180
83. Sandstone	10	180	170
84. Sandstone	10	170	160
85. Sandstone	10	160	150
86. Sandstone	10	150	140
87. Sandstone	10	140	130
88. Sandstone	10	130	120
89. Sandstone	10	120	110
90. Sandstone	10	110	100
91. Sandstone	10	100	90
92. Sandstone	10	90	80