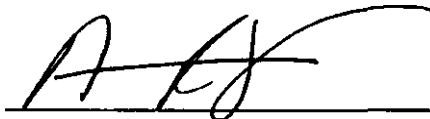


Apache Corporation
303 Veterans Airpark Lane, #3000
Midland, TX 79705
original name
Raven Federal Com #024H
Eddy County, New Mexico

API #30-015-43363
2245 FSL + 505' FWL
Sec. 7 T17S R31E
Eddy Co. New Mexico

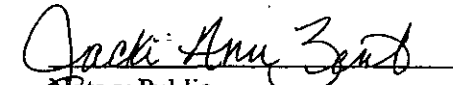
252	2.52	0.50	0.88	2.21	2.21
398	1.46	2.00	3.50	5.11	7.32
504	1.06	2.60	4.55	4.82	12.14
736	2.32	1.90	3.33	7.71	19.85
1025	2.89	0.80	1.40	4.05	23.90
1281	2.56	0.80	1.40	3.58	27.48
1496	2.15	1.30	2.28	4.89	32.37
1750	2.54	0.80	1.40	3.56	35.93
2006	2.56	0.60	1.05	2.69	38.62
2262	2.56	0.20	0.35	0.90	39.51
2484	2.22	0.40	0.70	1.55	41.07
2740	2.56	0.10	0.18	0.45	41.52
2996	2.56	0.40	0.70	1.79	43.31
3250	2.54	0.10	0.18	0.44	43.75
3475	2.25	0.40	0.70	1.58	45.33
3705	2.30	0.40	0.70	1.61	46.94
3961	2.56	0.40	0.70	1.79	48.73
4217	2.56	0.40	0.70	1.79	50.52
4430	2.13	0.20	0.35	0.75	51.27
4803	3.73	0.20	0.35	1.31	52.57

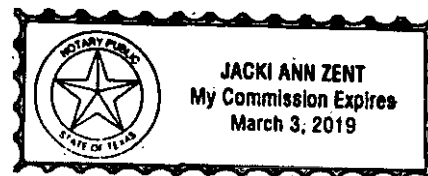
* new name - Cedar Lake Federal CA 724H



Archie Brown - General Manager

The attached instrument was acknowledged before me on the 16th day of December, 2015
by Archie Brown - General Manager, CapStar Drilling, Inc.


Notary Public



WELL NAME: RAVEN FEDERAL COM 24H

API: 30-015-43963

SPUD DATE: 11/29/2015

PRODUCING FORMATION: YESO UPPER BUNEBRY

FIELD: CEDAR LAKE (BP)

COUNTY: EDDY

STATE: NEW MEXICO

WORKING INTEREST: 60.00%

SURFACE LOC: 2245 FSL & 505 FWL

SECTION: 7

TOWNSHIP: 17-S

RANGE: 31-E

SURVEY: RONALD J. EDSON

BOTTOM HOLE LOC: 2310.7 FSL & 331.4 FEL

SECTION: 7

TOWNSHIP: 17-S

RANGE: 31-E

SURVEY: RONALD J. EDSON

DRILL RIG: CAPSTAR 114

RIG RELEASE: 12/12/2015

KB (ft): 3,735.00

GL (ft): 3,724.00

KB/GL DIFF (ft): 11.00

TMD (ft): 9,294.00

TD OF PILOT HOLE (ft): N/A

FC DEPTH (ft): 9,244.00

PBMD (ft): 9,294.00

RDV DEPTH (ft): N/A

ORIO VALVE (ft): N/A

DEEPEST TVD (ft): 5,357.00

TAPERED CASING STRING:

7" 29# L-80 TO X-OVER @ 4,819'
TAPERING TO 5" 20# L-80 SET @ 9,253'

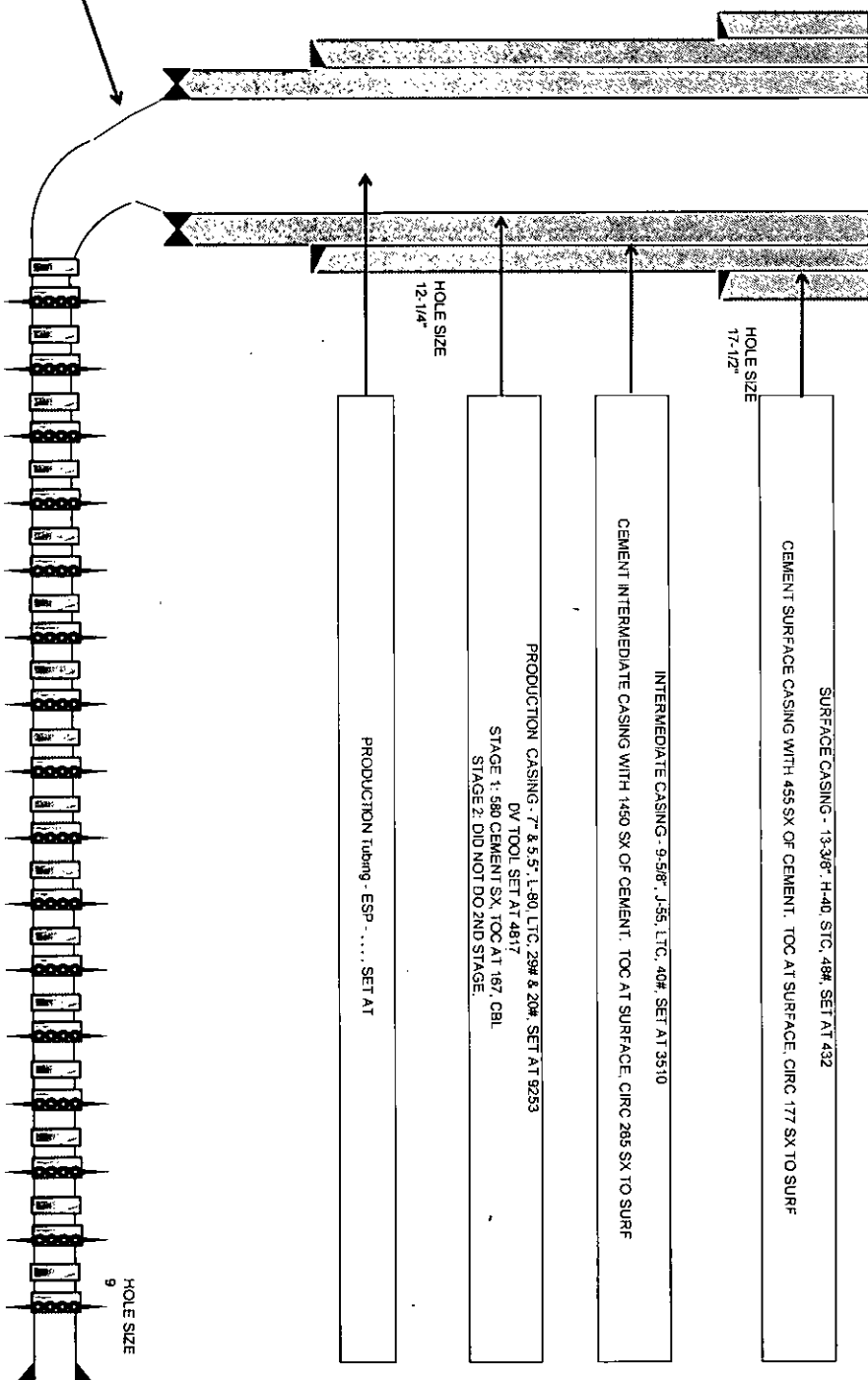
KOP (ft):
LATERAL LENGTH (ft):
TD OF PILOT HOLE (ft):

4,803
3,651

PACKERS & SLEEVES
TOP PERF (MD):
BOTTOM PERF (MD):

5,613
9,244

TMD (ft): 9,294
FC DEPTH (ft): 9,244
PBMD (ft): 9,294
RDV DEPTH (ft): N/A
ORIO VALVE (ft): N/A



LAST UPDATED BY: HILLARI GOULD
LAST UPDATED: 4/28/2016

COMMENTS:

CROSSOVER SUB @ 4,819'

PACKERS & SLEEVES - 14 STAGES					
TOTAL ACID (bbbl)	TOTAL LTR (bbbl)	TOTAL PROPPANT (lbs)	MAX WH RATE (bpm)	MAX WH PRESSURE (psi)	
2,254	55,618	2,640,880	93.00	6,023	
PRODUCTION METHOD	LIFT TYPE	SETTING DEPTH			
Pumping	ESP	0			