Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No: NM-82902
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA/Agreement, Name and/or No:

1. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other
8. Well Name and No: Domino AOJ Federal Com #12H
2. Name of Operator: Yates Petroleum Corporation
9. API Well No: 30-015-38386
3a. Address: 105 South Fourth Street, Artesia, NM 88210
3b. Phone No (include area code): (575) 748-1471
10. Field and Pool, or Exploratory Area: N. Hackberry Bone Spring
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): Surface: 660' FNL & 330' FWL, Section 8 T19S-R31E, Unit Letter D
BHL: 660' FNL & 330 FEL, Section 8 T19S-R31E, Unit Letter A
11. County or Parish, State: Eddy County

12 CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports shall be filed within 30 days Following completion of the involved operations If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once Testing has been completed Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Yates Petroleum Corportation respectfully requests permission to run a packer/port system on the 5 1/2" casing for this well. Cementing will be done with the use of a packer stage tool. Cement will be placed from dv tool up to 500' into intermediate casing See attached Baker Hughes diagram and cement design.

Accepted for record - NMOCD
DD 8-9-11

RECEIVED
AUG 4 2011
NMOCD ARTESIA

Thank-You

14 I hereby certify that the foregoing is true and correct

Name (Printed/Typed)	Title
Jeremiah Mullen	Well Planner
Signature: Jeremiah Mullen	Date: July 21, 2011

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon	Office	

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

APPROVED
JUL 21 2011
/s/ Chris Walls
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

BAKER HUGHES

Baker Oil Tools

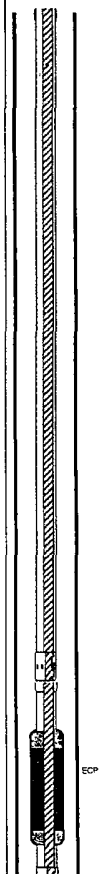
Yates - Domino AOJ Fed Com #12H

Frac Point System Installation Diagram

Frac-Point

Baker Oil Tools | Open Hole Completions | Odessa District

(432) 563 1900



OPEN HOLE INFORMATION

OH Size	8 5	(in)
TD	12 280 00	(ft MD)

CASING INFORMATION

9 625" 36 lb/ft J 55

Burst	3 520	(psi)
Collapse	2 020	(psi)
Capacity	0 0773	(bbl/ft)

LINER INFORMATION

5 5" 17 lb/ft P 110 LTC & BTC

Burst	10 640	(psi)
Collapse	7,480	(psi)
Capacity	0 0232	(bbl/ft)

DISPLACEMENTS

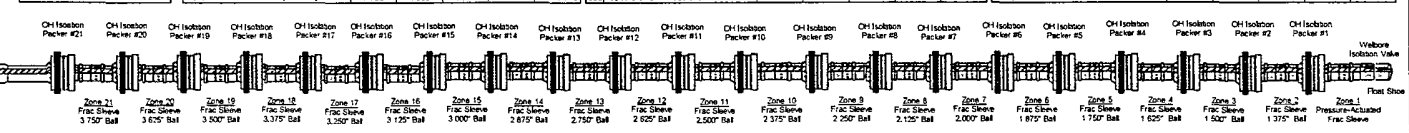
DV Tool	187 6	(bbl)
3 750" Sleeve	192 5	(bbl)
3 625" Sleeve	197 1	(bbl)
3 500" Sleeve	201 6	(bbl)
3 375" Sleeve	206 2	(bbl)
3 250" Sleeve	210 7	(bbl)
3 125" Sleeve	215 3	(bbl)
3 000" Sleeve	219 8	(bbl)
2 875" Sleeve	224 4	(bbl)
2 750" Sleeve	228 9	(bbl)
2 625" Sleeve	233 4	(bbl)
2 500" Sleeve	238.0	(bbl)
2 375" Sleeve	242 5	(bbl)
2 250" Sleeve	247 1	(bbl)
2 125" Sleeve	251 6	(bbl)
2 000" Sleeve	256 2	(bbl)
1 875" Sleeve	260 7	(bbl)
1 750" Sleeve	265 3	(bbl)
1 625" Sleeve	269 8	(bbl)
1 500" Sleeve	274 4	(bbl)
1 375" Sleeve	278 9	(bbl)
P Sleeve	283 5	(bbl)

ZONE LENGTH

Zone 21	196 00	(ft)
Zone 20	196 00	(ft)
Zone 19	196 00	(ft)
Zone 18	196 00	(ft)
Zone 17	196 00	(ft)
Zone 16	196 00	(ft)
Zone 15	196 00	(ft)
Zone 14	196 00	(ft)
Zone 13	196 00	(ft)
Zone 12	196 00	(ft)
Zone 11	196 00	(ft)
Zone 10	196 00	(ft)
Zone 9	196 00	(ft)
Zone 8	196 00	(ft)
Zone 7	196 00	(ft)
Zone 6	196 00	(ft)
Zone 5	196 00	(ft)
Zone 4	196 00	(ft)
Zone 3	196 00	(ft)
Zone 2	196 00	(ft)
Zone 1	159 51	(ft)

DIMENSIONAL INFORMATION

	Component Description	Max OD (in)	ID (in)	Seat ID (in)	Length (ft)	Top Depth (ft)
1	188 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	N-	8,085 00	0 01
2	DV Tool	5 500	TBD	TBD	3 00	8 084 99
3	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	8,087 99
4	EXTERNAL CASING PACKER #22	8 310	4 790	NA	12 50	8,093 99
5	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	8 106 49
6	Ball Seat Sub (optional)	5 500	4 892	NA	0 00	8 108 49
7	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	8 108 49
8	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	8 194 49
9	831 OH PACKER #21	8 310	4 790	N-	4 00	8,200 49
10	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	8,204 49
11	2 Jts Csg 5 5" 17#P-110 LTC	5 500	4 892	NA	86 00	8,206 49
12	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	8,292 49
13	3 750" BALL SLEEVE (Zone 21)	7 750	4 813	3 650	4 00	8,298 49
14	Pup Jt, 5 5" 17# P 110 LTC	5,500	4 892	NA	2 00	8,302 49
15	2 Jts Csg, 5 5" 17#P-110 LTC	5 500	4 892	NA	86 00	8,304 49
16	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	8,390 49
17	831 OH PACKER #20	8 310	4 790	NA	4 00	8 396 49
18	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	8,400 49
19	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	8,402 49
20	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	8,488 49
21	3 625" BALL SLEEVE (Zone 20)	7 750	4 813	3 525	4 00	8 494 49
22	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	8,498 49
23	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	8 500 49
24	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	8,586 49
25	831 OH PACKER #19	8 310	4 790	NA	4 00	8,592 49
26	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	8,596 49
27	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	N-	86 00	8,598 49
28	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	8,684 49
29	3 500" BALL SLEEVE (Zone 19)	7 750	4 813	3 400	4 00	8,690 49
30	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	8,694 49
31	2 Jts Csg, 5 5" 17#P-110 LTC	5 500	4 892	NA	86 00	8 696 49
32	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	8 782 49
33	831 OH PACKER #18	8 310	4 790	NA	4 00	8 788 49
34	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	N-	2 00	8,792 49
35	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	8,794 49
36	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	8,880 49
37	3 375" BALL SLEEVE (Zone 18)	7 750	4 813	3 275	4 00	8,886 49
38	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	8,890 49
39	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	8 892 49
40	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	8,978 49
41	831 OH PACKER #17	8 310	4 790	NA	4 00	8 984 49
42	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	8 988 49
43	2 Jts Csg 5 5" 17#P 110 LTC	5 500	4 892	NA	86 00	8 990 49
44	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	9,076 49
45	3 250" BALL SLEEVE (Zone 17)	7 750	4 813	3 150	4 00	9,082 49
46	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	9,086 49
47	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	9,088 49
48	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	9,174 49
49	831 OH PACKER #16	8 310	4 790	N-	4 00	9,180 49
50	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	9,184 49
51	2 Jts Csg 5 5" 17#P-110 LTC	5 500	4 892	NA	86 00	9 186 49
52	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	9 272 49
53	3 125" BALL SLEEVE (Zone 16)	7 750	4 813	3 025	4 00	9 278 49
54	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	9,282 49
55	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	9,284 49
56	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	9,370 49
57	831 OH PACKER #15	8 310	4 790	NA	4 00	9,376 49
58	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	9,380 49
59	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	9 382 49
60	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	9,468 49
61	3 000" BALL SLEEVE (Zone 15)	7 750	4 813	2 900	4 00	9 474 49
62	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	9 478 49
63	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	9,480 49
64	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	9 566 49
65	831 OH PACKER #14	8 310	4 790	N-	4 00	9,572 49
66	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	9,576 49
67	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	9,578 49
68	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	9 664 49
69	2 875" BALL SLEEVE (Zone 14)	7 750	4 813	2 775	4 00	9 670 49
70	Pup Jt 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	9,674 49
71	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	9 676 49
72	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	9,762 49
73	831 OH PACKER #13	8 310	4 790	NA	4 00	9,768 49
74	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	9,772 49
75	2 Jts Csg, 5 5" 17#P-110 LTC	5 500	4 892	NA	86 00	9,774 49
76	Pup Jt 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	9 860 49
77	2 750" BALL SLEEVE (Zone 13)	7 750	4 813	2 650	4 00	9 866 49
78	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	9 870 49
79	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	9 872 49
80	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	9,958 49
81	831 OH PACKER #12	8 310	4 790	NA	4 00	9 964 49
82	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	9,968 49
83	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	9 970 49
84	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	10,056 49
85	2 625" BALL SLEEVE (Zone 12)	7 750	4 813	2 525	4 00	10 062 49
86	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	10 066 49
87	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	N-	86 00	10,068 49
88	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	10,154 49
89	831 OH PACKER #11	8 310	4 790	NA	4 00	10,160 49
90	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	10,164 49
91	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	10 166 49
92	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	10,252 49
93	2 500" BALL SLEEVE (Zone 11)	7 750	4 813	2 400	4 00	10,258 49
94	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	10 262 49
95	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	10 264 49
96	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	10 350 49
97	831 OH PACKER #10	8 310	4 790	NA	4 00	10,356 49
98	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	10,360 49
99	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	10,362 49
100	Pup Jt 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	10 448 49
101	2 375" BALL SLEEVE (Zone 10)	7 750	4 813	2 275	4 00	10 454 49
102	Pup Jt 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	10 458 49
103	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	10,460 49
104	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	10,546 49
105	831 OH PACKER #9	8 310	4 750	N-	4 00	10 552 49
106	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	10 556 49
107	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	10 558 49
108	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	N-	6 00	10 644 49
109	2 250" BALL SLEEVE (Zone 9)	7 750	4 813	2 150	4 00	10 650 49
110	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	10 654 49
111	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	10,656 49
112	Pup Jt 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	10,742 49
113	831 OH PACKER #8	8 310	4 790	NA	4 00	10,748 49
114	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	10,752 49
115	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	10 754 49
116	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	10 840 49
117	2 125" BALL SLEEVE (Zone 8)	7 750	4 813	2 025	4 00	10 846 49
118	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	10,850 49
119	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	10 852 49
120	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	10,938 49
121	831 OH PACKER #7	8 310	4 790	NA	4 00	10 944 49
122	Pup Jt 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	10 948 49
123	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	10,950 49
124	Pup Jt, 5 5" 17# P 110 LTC	5,500	4 892	NA	6 00	11,036 49
125	1 000" BALL SLEEVE (Zone 7)	7 750	4 813	1 900	4 00	11,042 49
126	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	11 046 49
127	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	11 048 49
128	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	N-	6 00	11 134 49
129	831 OH PACKER #6	8 310	4 790	N-	4 00	11 140 49
130	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	11,144 49
131	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	11,146 49
132	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	11,232 49
133	1 875" BALL SLEEVE (Zone 6)	7 750	4 813	1 775	4 00	11,238 49
134	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	11,242 49
135	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	N-	86 00	11,244 49
136	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	11 330 49
137	831 OH PACKER #5	8 310	4,790	N-	4 00	11,336 49
138	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	11,340 49
139	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	11,342 49
140	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	11 428 49
141	1 750" BALL SLEEVE (Zone 5)	7 750	4 813	1 650	4 00	11,434 49
142	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	11 438 49
143	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	11,440 49
144	Pup Jt, 5 5" 17# P 110 LTC	5,500	4 892	N-	6 00	11,526 49
145	831 OH PACKER #4	8 310	4 790	N-	4 00	11 532 49
146	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	11,536 49
147	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	N-	86 00	11 538 49
148	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	11 624 49
149	1 625" BALL SLEEVE (Zone 4)	7 750	4 813	1 525	4 00	11,630 49
150	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	2 00	11,634 49
151	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	N-	86 00	11,636 49
152	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	11,722 49
153	831 OH PACKER #3	8 310	4 790	NA	4 00	11,728 49
154	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	N-	2 00	11,732 49
155	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	N-	86 00	11,734 49
156	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	6 00	11,820 49
157	1 500" BALL SLEEVE (Zone 3)	7 750	4 813	1 400	4 00	11 826 49
158	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	NA	2 00	11,830 49
159	2 Jts Csg, 5 5" 17# P 110 LTC	5,500	4 892	NA	86 00	11,832 49
160	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	N-	6 00	11,918 49
161	831 OH PACKER #2	8 310	4 790	N-	4 00	11,924 49
162	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	11,928 49
163	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	NA	86 00	11,930 49
164	Pup Jt 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	12,016 49
165	1 375" BALL SLEEVE (Zone 2)	7 750	4 813	1 275	4 00	12,022 49
166	Pup Jt, 5 5" 17# P-110 LTC	5 500	4 892	N-	2 00	12,026 49
167	2 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	86 00	12,028 49
168	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	NA	6 00	12,114 49
169	831 OH PACKER #1	8 310	4 790	NA	4 00	12 120 49
170	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	12,124 49
171	2 Jts Csg, 5 5" 17# P 110 LTC	5 500	4 892	N-	86 00	12,126 49
172	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	12 212 49
173	P-Sleeve	7 750	4 813	N-	4 00	12,218 49
174	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	2 00	12 222 49
175	1 Jts Csg, 5 5" 17# P-110 LTC	5 500	4 892	NA	43 00	12,224 49
176	Pup Jt, 5 5" 17# P 110 LTC	5 500	4 892	N-	6 00	12,267 49
177	WV Tool	7 900	NA	1 000	3 00	12,273 49
178	Float Collar and Shoe				3 51	12,276 49
						12,280 00
						12,280 00



Section 4: fluid descriptions

Fresh Water DESIGN

Fluid No: 2
Rheo. Model : NEWTONIAN
At temp. : (degF)

Density : 8.33 lb/gal

Viscosity : 2.000 cP
Gel Strength : (lbf/100ft2)

WASH
Wash Type :
Mud Type : WBM

Water/Wash (vol.): 100.0 %

Job volume : 132.7 bbl

BASE FLUID
Type : Fresh Water

Density : 8.33 lb/gal

Lead Slurry DESIGN

Fluid No: 6
Rheo. Model : HERSCHEL_B.
At temp. : 80 degF

Density : 12.00 lb/gal
k : 1.26E-2 lbf.s^n/ft2
n : 0.769
τ_y : 0.07 lbf/100ft2
Gel Strength : (lbf/100ft2)

DESIGN
BLEND
Name : PVL
Dry Density : 176.05 lb/ft3
Sack Weight : 75 lb

SLURRY
Mix Fluid : 10.025 gal/sk
Yield : 1.83 ft3/sk
Solid Fraction : 26.6 %

Job volume : 400.5 bbl
Quantity : 1231.91 sk

BASE FLUID
Type : Fresh water

Density : 8 32 lb/gal

Base Fluid : 9.997 gal/sk

Additives		
Code	**Conc.**	**Function**
D044	1.000 %BWOW	Salt
D112	1.500 %BWOC	Fluid loss
D046	0.200 %BWOC	Antifoam
D800	0.600 %BWOC	Retarder
D042	3.000 lb/sk blend	LCM/extender
D130	0.125 lb/sk blend	Lost circ

Rheometric Measurements
Rheometer type : 35
Geometry : R1B1
Spring No : 1.0

(rpm)	At 80 degF (deg)
300	145.0
200	105.5
100	63.0
60	41.0
30	25.5
6	7.0
3	4.0

	Viscosity : (cP)
10 sec Gel Strength	8.54 lbf/100ft2
10 min Gel Strength	(lbf/100ft2)

Tail Slurry DESIGN

Fluid No: 4
Rheo. Model : BINGHAM
At temp. : 80 degF

Density : 16.00 lb/gal
Pv : 70.055 cP
Ty : 24.84 lbf/100ft2
Gel Strength : 58.70 lbf/100ft2

DESIGN

BLEND
Name : H
Dry Density : 197.27 lb/ft3
Sack Weight : 94 lb

SLURRY
Mix Fluid : 4.804 gal/sk
Yield : 1.13 ft3/sk
Solid Fraction : 42.9 %

Job volume : 24.0 bbl
Quantity : 119.71 sk

BASE FLUID
Type : Fresh water
Density : 8.32 lb/gal
Base Fluid : 4.804 gal/sk

Additives		
Code	**Conc.**	**Function**
D167	0.200 %BWOC	Fluid loss
D046	0.200 %BWOC	Antifoam
D201	0.400 %BWOC	Retarder

Rheometric Measurements

Rheometer type : 35
Geometry : R1B1
Spring No : 1.0

(rpm)	At 80 degF (deg)
300	94.0
200	72.5
100	48.0
60	38.0
30	33.0
6	25.0
3	17.0
	Pv : (cP)
	Ty : (lbf/100ft2)

10 sec Gel Strength	19.21 lbf/100ft2
10 min Gel Strength	58.70 lbf/100ft2

Displacement fluid DESIGN

Fluid No: 5
Rheo. Model : NEWTONIAN
At temp. : (degF)
At press. : (psi)

Density : 8.32 lb/gal
Viscosity : 5.000 cP
Gel Strength : (lbf/100ft2)

Date :
LAR Comment :

Lab Contact :

Fluid ID :

WELL CONDITIONS

Job Type :
Total MD : (ft)
TVD : (ft)

BHCT : (degF)
BHST : (degF)
BHP : (psi)

ToC Depth : (ft)
ToC ST : (degF)

WASH

Wash Type : Water
Mud Type : WBM

Density : 8.32 lb/gal

Water/Wash (vol.): 99.2 %

BASE FLUID

Type : Fresh water
Density : 8.32 lb/gal

Wash vol : 600.0 ml
Mixfluid vol : 595.0 ml

Wet phase contents

Code	Lot Number	Conc.	Function	Quantity	Mass
Fresh water				186.393 bbl	65133.270 lb
OxyScav		0.300 gal/bbl of wash	OxyScav	56.388 gal	475.267 lb
M297L		0.050 gal/bbl of wash	Biocide	9.398 gal	79.211 lb