

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN  
DUPLICATE

(See other instructions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

5. LEASE DESIGNATION AND LEASE NO.  
NMSF- 078362

6. IF INDIAN, ALLOTTEE OR  
RCVD MAR 14 '14

7. UNIT AGREEMENT NAME  
OIL CONS. DIV.  
DIST. 3

8. FARM OR LEASE NAME, WELL NO.  
CHACO 2306-06L #178H

9. API WELL NO.  
30-039-31200

10. FIELD AND POOL, OR WILDCAT  
LYBROOK GALLUP

11. SEC., T., R., M., OR BLOCK AND  
SURVEY OR AREA  
SEC 6 23N 6W

12. COUNTY OR  
RIO ARRIBA 13. STATE  
New Mexico

19. ELEVATION CASINGHEAD

ROTARY TOOLS  
x CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE  
YES

27. WAS WELL CORED  
No

14. PERMIT NO.  
DATE ISSUED  
MAR 10 2014

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)\*  
6933' GR

22. IF MULTICOMP.,  
HOW MANY 23. INTERVALS  
DRILLED BY

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
LYBROOK GALLUP: 6063'-10459' MD

26. TYPE ELECTRIC AND OTHER LOGS RUN

28. CASING REPORT (Report all strings set in well)					
CASING SIZE/GRADE.	WEIGHT, LB./FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#, J-55	406' MD	12-1/4"	245sx - surface	
7"	23#, J-55	6040' MD	8-3/4"	775 sx- surface	

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
4-1/2"	5879'	10544' MD	360 sx-		2-3/8", 4.7#, J-55 EUE 8rd	5764'

31. PERFORATION RECORD (Interval, size, and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
LYBROOK GALLUP: 6063'-10459' MD		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Mancos 15 <sup>th</sup> - 24, 0.40" holes		6063'-6274'	241,000#, 20/40 PSA Sand
Mancos 14 <sup>th</sup> - 24, 0.40" holes		6348'-6570'	243,638#, 20/40 PSA Sand
Mancos 13 <sup>th</sup> - 24, 0.40" holes		6654'-6879'	243,638#, 20/40 PSA Sand
Mancos 12 <sup>th</sup> - 24, 0.40" holes		6946'-7187'	243,566#, 20/40 PSA Sand
Mancos 11 <sup>th</sup> - 24, 0.40" holes		7264'-7462'	243,566#, 20/40 PSA Sand
Mancos 10 <sup>th</sup> - 24, 0.40" holes		7539'-7775'	198,894#, 20/40 PSA Sand
Mancos 9 <sup>th</sup> - 24, 0.40" holes		7860'-8075'	201,042#, 20/40 PSA Sand
Mancos 8 <sup>th</sup> - 24, 0.40" holes		8144'-8365'	200,892#, 20/40 PSA Sand

ACCEPTED FOR RECORD

MAR 11 2014

FARMINGTON FIELD OFFICE  
BY: 37

CONFIDENTIAL

NMOCD

Mancos 7<sup>th</sup> – 24, 0.40" holes

Mancos 6<sup>th</sup> – 24, 0.40" holes

Mancos 5<sup>th</sup> – 24, 0.40" holes

Mancos 4<sup>th</sup> – 24, 0.40" holes

Mancos 3<sup>rd</sup> – 24, 0.40" holes

Mancos 2<sup>nd</sup> – 24, 0.40" holes

Mancos 1<sup>st</sup> -- 18, 0.40" holes

8442'-8651'	204,810# , 20/40 PSA Sand
8720'-8948'	200,951# , 20/40 PSA Sand
9014'-9237'	205,319# , 20/40 PSA Sand
9309'-9531'	2,300 # , 20/40 PSA Sand
9604'-9818'	205,126 # , 20/40 PSA Sand
9892'-10131'	209,844 # 20/40 PSA Sand
10215'-10459'	207,119 # 20/40 PSA Sand

33. PRODUCTION

DATE OF FIRST PRODUCTION 3/9/14		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)  Flowing				WELL STATUS (PRODUCING OR SI)  PR	
DATE OF TEST 3/9/14	TESTED 24 HRS	CHOKE SIZE 48/64"	PROD'N FOR TEST PERIOD	OIL - BBL. 496	GAS - MCF 2045	WATER - BBL. 464	GAS-OIL RATIO
FLOW TBG PRESS 550 psi	CASING PRESSURE 1500 psi	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): non flaring

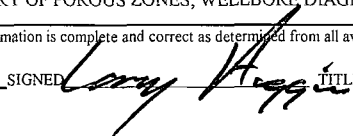
TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

PRINTED NAME Larry Higgins

SIGNED



TITLE Regulatory Spec Sr.

DATE 3/10/14

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP		BOTTOM		DESCRIPTION, CONTENTS, ETC.	NAME	
							NAME
Ojo Alamo	1457	1451					
Kirtland	1772	1764					
Picture Cliffs	2054	2044					
Lewis	2166	2156					
Chacra	2497	2485					
Cliff House	3590	3572					
Menefee	3629	3612					
Point Lookout	4334	4317					
Mancos	4559	4542					
Gallup	4964	4946					

**CHACO 2306-06L #178H**  
**LYBROOK GALLUP Horizontal**  
 (page 1)

Spud: 12/4/13  
 Completed: 3/2/14

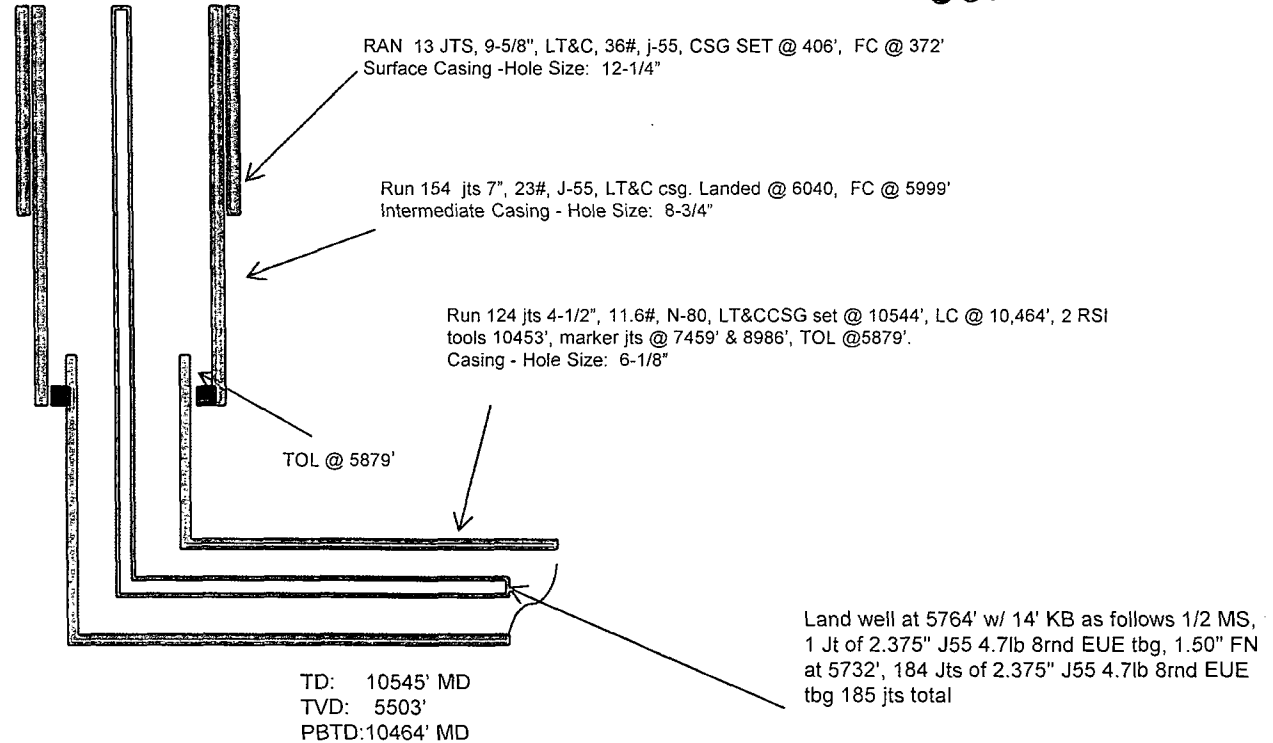
**CONFIDENTIAL**

**SHL:** 1691' FSL & 572' FWL  
 NW/4 SW/4 Section 16 (L), T23N, R6W

**BHL:** 1496' FSL & 250' FWL  
 SW/4 SW/4 Section 1 (L), T23N, R 7W

Rio Arriba., NM  
**Elevation:** 6933  
**API:** 30-039-31200

<i>Tops</i>	<i>MD</i>	<i>TVD</i>
Ojo Alamo	1457'	1451'
Kirtland	1772'	1764'
Pictured Cliffs	2054'	2044'
Lewis	2166'	2156'
Chacra	2497'	2485'
Cliff House	3590'	3572'
Menefee	3629'	3612'
Point Lookout	4334'	4317'
Mancos	4559'	4542'
Gallup	4964'	4946'



HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"	245 sx	222 cu.ft.	Surface
8-3/4"	7"	775 sx	1086 cu. ft.	Surface
6-1/8"	4-1/2"	360 sx	517 cu. ft.	5879' TOL

Gallup 15th:  
6063'-6274'-  
with 24, 0.40" holes.  
Frac Gallup 14<sup>th</sup> stage  
with 241,000# , 20/40  
PSA Sand

Gallup 13th:  
6654'-6879'-  
with 24, 0.40"  
holes. Frac Gallup  
13<sup>th</sup> stage with  
243,638# , 20/40  
PSA Sand

Gallup 14th:  
6348'-6570'-  
with 24, 0.40"  
holes. Frac Gallup  
14<sup>th</sup> stage with  
243,638# , 20/40  
PSA Sand

Gallup 12th:  
6946'-7187'-  
with 24, 0.40" holes.  
Frac Gallup 12<sup>th</sup>  
stage with 243,566#  
, 20/40 PSA Sand

Gallup 11th:  
7264'-7462'-  
with 24, 0.40" holes.  
Frac Gallup 11<sup>th</sup> stage  
with 243,566# , 20/40  
PSA Sand

Gallup 10th:  
7539'-7775'-  
with 24, 0.40"  
holes. Frac Gallup  
10<sup>th</sup> stage with  
198,894# ,  
20/40 PSA  
Sand

Gallup 9th:  
7860'-8075'-  
with 24, 0.40"  
holes. Frac Gallup  
9<sup>th</sup> stage with  
201,042# , 20/40  
PSA Sand

Gallup 8th:  
8144'-8365'-  
with 24, 0.40"  
holes. Frac Gallup  
8<sup>th</sup> stage with  
200,892# , 20/40  
PSA Sand

Gallup 7th:  
8442'-8651'-  
with 24, 0.40"  
holes. Frac  
Gallup 7<sup>th</sup>  
stage with  
204,810# ,  
20/40 PSA  
Sand

Gallup 6th:  
8720'-8948',  
with 24, 0.40"  
holes. Frac  
Gallup 6<sup>th</sup> stage  
with 200,951# ,  
20/40 PSA  
Sand

Gallup 5th:  
9014'-9237'-  
with 24, 0.40"  
holes. Frac  
Gallup 5<sup>th</sup> stage  
with 205,319# ,  
20/40 PSA  
Sand

Gallup 4th:  
9309'-9531'-  
with 24, 0.40"  
holes. Frac  
Gallup 4<sup>th</sup> stage  
with 2,300 # ,  
20/40 PSA  
Sand

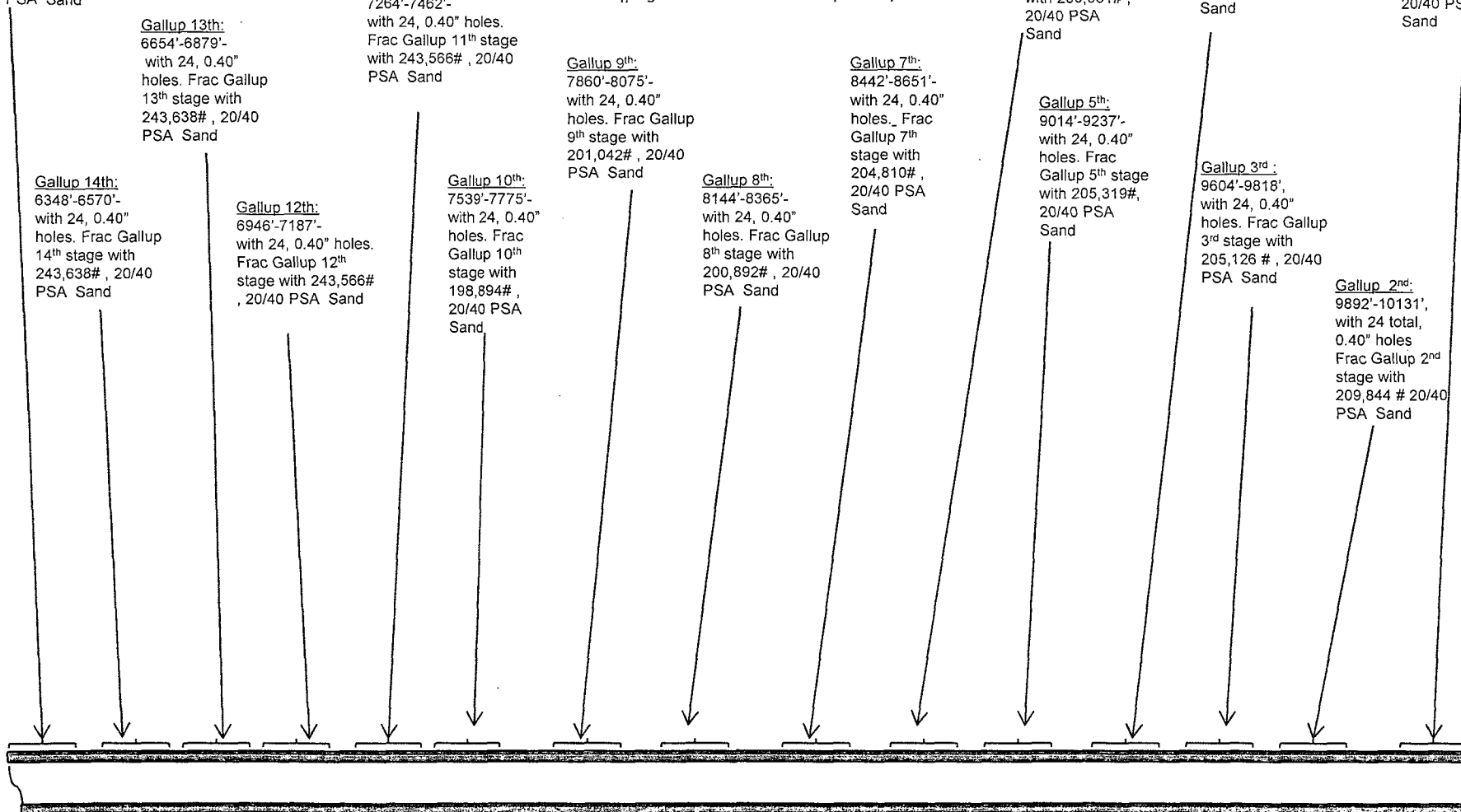
Gallup 3rd:  
9604'-9818',  
with 24, 0.40"  
holes. Frac Gallup  
3<sup>rd</sup> stage with  
205,126 # , 20/40  
PSA Sand

Gallup 2nd:  
9892'-10131',  
with 24 total,  
0.40" holes  
Frac Gallup 2<sup>nd</sup>  
stage with  
209,844 # 20/40  
PSA Sand

Gallup 1st:  
10215'-10377' +  
RSI TOOL @  
10459' MD with  
18, 0.42" holes  
with 207,119 #  
20/40 PSA  
Sand

## CHACO 2306-06L #178H LYBROOK GALLUP Horizontal

(page 2 – lateral with completion)



See page 1 for upper portion of hole