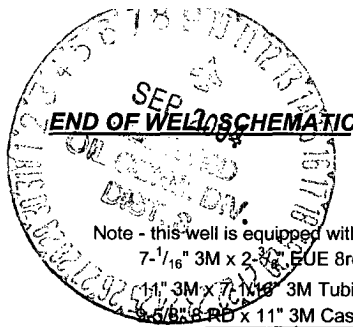


ConocoPhillips

Well Name: **San Juan 32-7 #219A**
 API #: **30-045-32339**
 Location: **935' FSL & 1085' FEL**
 Sec. 5 - T31N - R7W
 San Juan County, NM
 Elevation: **6599' GL (above MSL)**
 Drl Rig RKB: **13' above Ground Level**
 Datum: **Drl Rig RKB = 13' above GL**



Note - this well is equipped with rods & pump
 7-1/16" 3M x 2-3/8" EUE 8rd Bonnet
 11" 3M x 7-1/8" 3M Tubing Head
 5-5/8" 8 RD x 11" 3M Casing Head

Spud: **15-Jul-04**
 Release Drl Rig: **19-Jul-04**
 Move In Cav Rig: **26-Jul-04**
 Release Cav Rig: **18-Aug-04**

Surface Casing Date set: **15-Jul-04**
 Size **9 5/8** in
 Set at **240** ft # Jnts: **5**
 Wt. **32.3** ppf Grade **H-40**
 Hole Size **12 1/4** in Conn **STC**
 Excess Cmt **125** %
 T.O.C. **SURFACE**

Csg Shoe **240** ft
 TD of 12-1/4" hole **240** ft

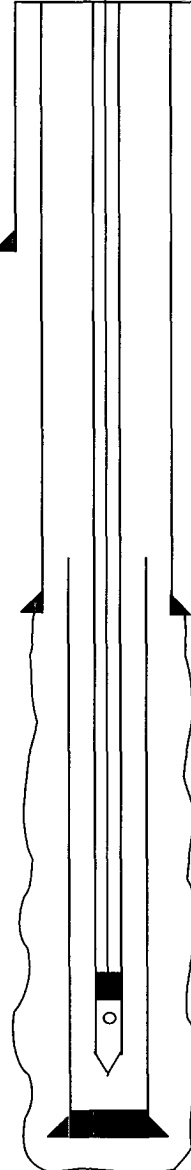
Notified BLM @ _____ hrs on **14-Jul-04**
 Notified NMOCD @ _____ hrs on **14-Jul-04**

Intermediate Casing Date set: **18-Jul-04**
 Size **7** in **75** jts
 Set at **3187** ft **0** pups
 Wt. **20** ppf Grade **J-55**
 Hole Size **8 3/4** in Conn **STC**
 Excess Cmt **160** % Top of Float Collar **3143** ft
 T.O.C. **SURFACE** Bottom of Casing Shoe **3187** ft
 Pup @ _____ ft TD of 8-3/4" Hole **3187** ft
 Pup @ _____ ft

Notified BLM @ _____ hrs on _____
 Notified NMOCD @ _____ hrs on _____

Production Liner Date set: **15-Aug-04**
 Size **5 1/2** in
 Nominal Wt. **15.5** ppf
 Grade **J-55** Connections: **LTC**
 # Jnts: **8**
 Hole Size **6.25 / 9.5** inches
 Underreamed 6-1/4" hole to 9.5" from 3190' to 3474'
 Top of Liner **3118** ft
 PBTB **3473** ft
 Bottom of Liner **3474** ft

This well was cavitated.



TD **3,474** ft

Surface Cement

Date cmt'd: **15-Jul-04**
 Lead : **150** sx Class G Cement
 + 2% BWOC S001 Calcium Chloride
 + 0.25 lb/sx D029 Cellophane Flakes
1.16 cuft/sx, **174.0** cuft slurry at **15.8** ppg
 Displacement: **15.5** bbls fresh wtr
 Bumped Plug at: **23:00** hrs w/ **310** psi
 Final Circ Press: **150** psi @ **2** bpm
 Returns during job: **YES**
 CMT Returns to surface: **10** bbls
 Floats Held: **No** floats used
 W.O.C. for **6.00** hrs (plug bump to start NU BOP)
 W.O.C. for **9.00** hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: **18-Jul-04**
 Lead : **450** sx Class G Cement
 + 3% D079 Extender
 + 0.25 lb/sx D029 Cellophane Flakes
 + 0.2% D046 Antifoam
2.61cuft/sx, **1174.5** cuft slurry at **11.7** ppg
 Tail : **100** sx 50/50 POZ : Class G cement
 + 2% D020 Bentonite
 + 2% S001 Calcium Chloride
 + 5 lb/sx D024 Gitsonite
 + 0.25 lb/sx D029 Cellophane Flakes
 + 0.2% D046 Antifoam
1.27 cuft/sx, **127** cuft slurry at **13.5** ppg
 Displacement: **127.5** bbls
 Bumped Plug at: **12:30** hrs w/ **1350** psi
 Final Circ Press: **860** psi @ **2** bpm
 Returns during job: **YES**
 CMT Returns to surface: **20** bbls
 Floats Held: **X** Yes **___** No

UNCEMENTED LINER

Schematic prepared by:
 Steven O. Moore, Drilling Engineer
 30-Aug-2004

COMMENTS:

9-5/8" Surf:	No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe @ 200'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt.	Total:	4
CENTRALIZERS @ 230', 146', 102' & 59'.			
7" Intermediate	DISPLACED W/ 127.5 BBLs. FRESH WATER	Total:	8
CENTRALIZERS @ 3176', 3142', 3055', 2969', 2883', 211', 84' & 41'.		Total:	4
TURBOLIZERS @ 2476', 2433', 2390', & 2347'			
5.5" Liner	Ran 5-3/4" OD V-shoe with float valve on bottom of liner. Ran liner w/ TIW H-Latch Drop Off Tool (no liner hanger).		
Perforations	Perforated 5-1/2" liner with guns on E-line at 4 spf, 0.75" diameter, 120 degree phased holes Perf. Intervals: 3210'-3215', 3219'-3224', 3227'-3230', 3246'-3258', 3268'-3274', 3302'-3306', 3368'-3373', 3446'-3452', 3464'-3472'. TOTAL SHOTS 216.		
Tubing	2-7/8" OD Orange Peeled Mud Anchor with eight each 0.25" x 8" slots just below the upset, 2-7/8" x 2-3/8" EUE 8rd crossover collar, 2-3/8" OD (1.78" ID) F-Nipple 105 jts 2-3/8" 4.7# J-55 EUE 8rd tubing Bottom of Mud Anchor at 3455'. F-Nipple at 3423' MD RKB.		
Pump & Rods	1" OD x 10' long dip tube (with bottom 2' perforated) attached below 1-1/4" RHAC-Z insert pump, 1 ea 4' x 3/4" OD rod sub above pump & 136 ea 25' x 3/4" OD rods, space out with 8' - 4' - 2' x 3/4" OD rod subs 1 ea 1-1/4" OD x 22' polished rod. Set pump in F-Nipple at 3423' MD RKB		