

## VICINITY MAP

NOT TO SCALE



SECTION 9, TWP. 17 SOUTH, RGE. 32 EAST, N. M. P. M., LEA COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC

LEASE: Sneed 9 Federal Com

WELL NO.: 21H

LOCATION: 330' FNL & 150' FWL ELEVATION: 4089'

o (512) 992-2087 f (512) 251-2518 | SHEET : 1 OF 1

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REVISION DATE JOB NO.: LS130060

DWG. NO.: 130060VM

PROSPERITY CONSULTANTS, LLC

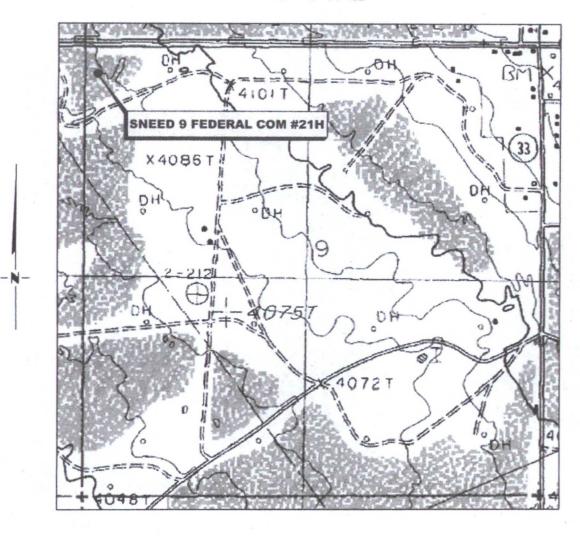


SCALE: N.T.S. DATE: 5/31/13 SURVEYED BY: GB/SM DRAWN BY: AF APPROVED BY: LWB

2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

## LOCATION VERIFICATION MAP

NOT TO SCALE



### SECTION 9, TWP. 17 SOUTH, RGE. 32 EAST, N. M. P. M., LEA COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC LEASE: Sneed 9 Federal Com

WELL NO.: 21H

ELEVATION: 4089'

LOCATION: 330' FNL & 150' FWL

CONTOUR INTERVAL: 10'

USGS TOPO. SOURCE MAP:

Maljamar, NM (Prov. Ed. 1985)

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DATE

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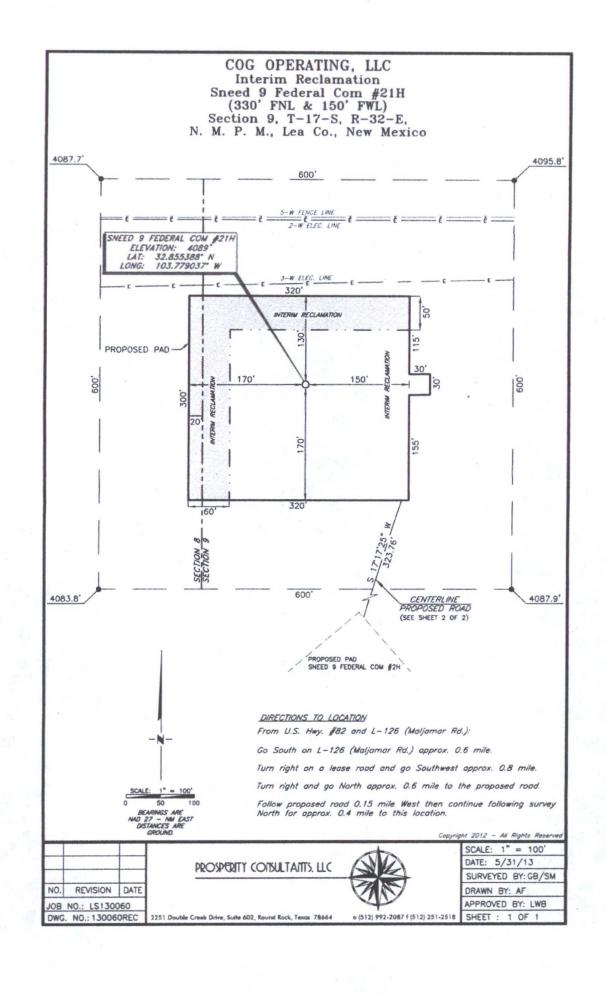
PROSPERITY CONSULTANTS, LLC

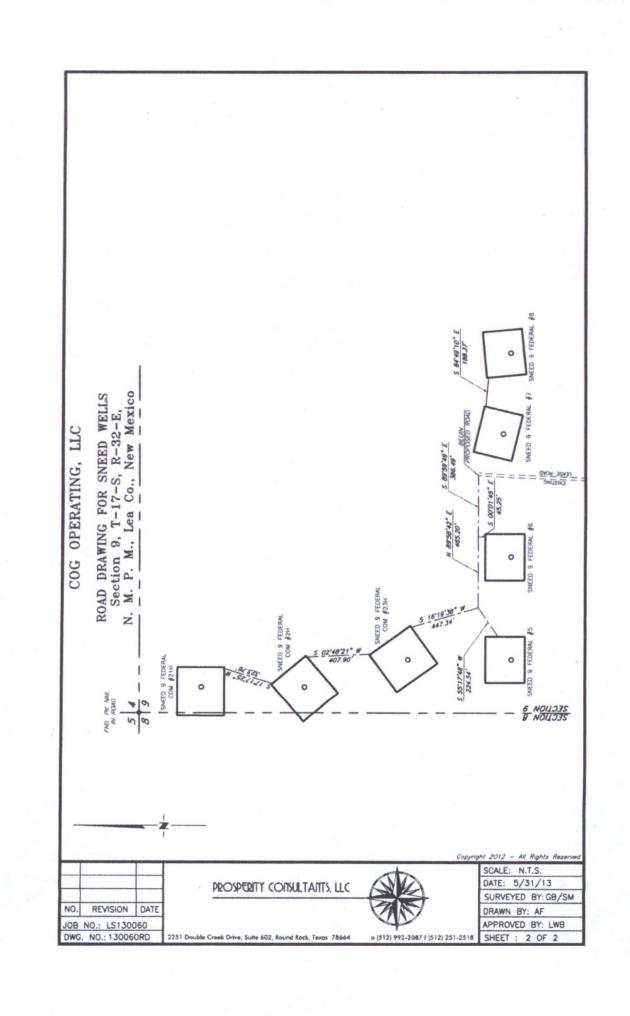


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#### SNEED 9 FEDERAL COM #21H

COG respectfully request approval to change production casing and cement programs as follows:

## Original production casing proposal:

**OLD Casing design** 

Hole Size	Interval MD	OD Casing	Weight	Grade	Condition	Jt.	brst/clps/ten
8 ¾"	2290'- 6223'	7"	26#	L-80	New	LT&C	1.17/1.83/3.70
8 3/4"	6223'- 6981'	5 ½"	17#	L-80	New	LT&C	1.55/1.96/3.45
7 7/8"	6981'- 11108'	5 ½"	17#	L-80	New	LT&C	1.55/1.96/3.45

# New production casing proposal:

Hole Size	Interval MD	OD Casing	Weight	Grade	Condition	Coupling	Burst	Collapse	Tension
8 3/4"	2290'- 5879	7"	26#	L-80	New	LT&C	1.33	3.24	2.76
8 3/4"	5879'- 6697	5 ½"	17#	L-80	New	LT&C	1.33	2.61	3.1
7 7/8"	12288	5 ½"	17#	L-80	New	LT&C	1.33	2.61	6.18

Revised

## **New production cement:**

Single Stage:

500 psi

						300 p31		
Interval	Hole Size	Sacks	Yield (cf/sx)	Cement wt (ppg)	Wtr Required (gal/sx)	Excess (%)	Time (hrs)	
0-5897	8.75	475	2.01	12.5	11.4	34	30	
5879- 6697	8.75	200	1.37	14	6.5	37	12	
6697- 12288	7.875	1300	1.37	14	6.5	37	12	

Multi-stage:

500 psi

Interval	Hole Size	Sacks	Yield (cf/sx)	Cement wt (ppg)	Wtr Required (gal/sx)	Excess (%)	Time (hrs)
0-3676	8.75	225	2.01	12.5	11.4	30	30
3676- 4082	8.75	150	1.02	16.8	4	143	6
4082- 5879	8.75	175	2.01	12.5	11.4	30	30
5879- 6697	8.75	200	1.37	14	6.5	37	12
6697- 12288	7.875	1300	1.37	14	6.5	37	12

This sundry was necessary because another ¼" mile was added to EOL.

The casing changes will help us install larger pumping equipment and L-80 has better corrosion resistance than P110.