



**COG Operating LLC
NEW MEXICO SHELF**

LEA COUNTY, NM

MALJAMAR

IVAR THE BONELESS FED #22H

OWB

Plan: PWP0

SHL: 105' FNL, 1423' FWL, SEC. 22, T17S, R32E, UNIT C

PP: 872' FSL, 986' FWL, SEC. 15, T17S, R32E, UNIT M

BHL: 330' FNL, 989' FWL, SEC. 15, T17S, R32E, UNIT D

Standard Planning Report

19 March, 2015

JAN 04 2016



COG Operating LLC
Planning Report

Database:	EDM_Users	Local Co-ordinate Reference:	Well IVAR THE BONELESS FED #22H
Company:	NEW MEXICO SHELF	TVD Reference:	WELL @ 4026.0usft (TBD)
Project:	LEA COUNTY, NM	MD Reference:	WELL @ 4026.0usft (TBD)
Site:	MALJAMAR	North Reference:	Grid
Well:	IVAR THE BONELESS FED #22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	LEA COUNTY, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	MALJAMAR			
Site Position:		Northing:	675,386.60 usft	Latitude: 32° 51' 19.093 N
From: Map		Easting:	682,929.80 usft	Longitude: 103° 44' 15.489 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.32 °

Well	IVAR THE BONELESS FED #22H			
Well Position	+N/-S	-10,351.2 usft	Northing:	665,035.39 usft
	+E/-W	-6,107.8 usft	Easting:	676,822.00 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	0.0 usft
			Ground Level:	4,014.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2005	12/31/2009	7.89	60.76	49,126

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	354.75

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,829.0	0.00	0.00	5,829.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,656.6	91.00	330.00	6,350.0	459.1	-265.1	11.00	11.00	0.00	330.00	
7,403.7	91.00	359.89	6,336.7	1,172.3	-456.9	4.00	0.00	4.00	89.74	
11,287.5	91.00	359.89	6,269.0	5,055.5	-464.6	0.00	0.00	0.00	0.00	PBHL-Ivar The Boneless



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Site:	MALJAMAR	North Reference:	Grid
Well:	IVAR THE BONELESS FED #22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



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Site:	MALJAMAR	North Reference:	Grid
Well:	IVAR THE BONELESS FED #22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,829.0	0.00	0.00	5,829.0	0.0	0.0	0.0	0.00	0.00	0.00
EST. KOP 5829' MD, 11°/100'									
5,900.0	7.81	330.00	5,899.8	4.2	-2.4	4.4	11.00	11.00	0.00
6,000.0	18.80	330.00	5,996.9	24.1	-13.9	25.3	11.00	11.00	0.00
6,100.0	29.80	330.00	6,087.9	59.7	-34.4	62.6	11.00	11.00	0.00
6,200.0	40.79	330.00	6,169.4	109.6	-63.3	115.0	11.00	11.00	0.00
6,300.0	51.79	330.00	6,238.4	172.1	-99.4	180.5	11.00	11.00	0.00
6,400.0	62.78	330.00	6,292.4	244.9	-141.4	256.8	11.00	11.00	0.00
6,500.0	73.78	330.00	6,329.3	325.2	-187.8	341.0	11.00	11.00	0.00
6,600.0	84.78	330.00	6,347.9	410.2	-236.8	430.1	11.00	11.00	0.00
6,656.6	91.00	330.00	6,350.0	459.1	-265.1	481.5	11.00	11.00	0.00
EOC, 6656.6' MD, 91°, 330° AZI									
6,700.0	91.01	331.74	6,349.2	497.0	-286.2	521.1	4.00	0.02	4.00
6,800.0	91.02	335.74	6,347.5	586.7	-330.4	614.5	4.00	0.01	4.00
6,900.0	91.03	339.74	6,345.7	679.2	-368.3	710.1	4.00	0.01	4.00
7,000.0	91.03	343.74	6,343.9	774.1	-399.6	807.5	4.00	0.00	4.00
7,100.0	91.03	347.74	6,342.1	871.0	-424.3	906.2	4.00	0.00	4.00
7,200.0	91.03	351.74	6,340.3	969.4	-442.1	1,005.8	4.00	-0.01	4.00
7,206.0	91.03	351.98	6,340.2	975.3	-442.9	1,011.8	4.00	-0.01	4.00
PP, 7206' MD									
7,300.0	91.02	355.74	6,338.5	1,068.7	-453.0	1,105.7	4.00	-0.01	4.00
7,400.0	91.00	359.74	6,336.7	1,168.6	-456.9	1,205.5	4.00	-0.02	4.00
7,403.7	91.00	359.89	6,336.7	1,172.3	-456.9	1,209.2	4.00	-0.02	4.00
7,500.0	91.00	359.89	6,335.0	1,268.6	-457.1	1,305.1	0.00	0.00	0.00
7,600.0	91.00	359.89	6,333.2	1,368.6	-457.3	1,404.7	0.00	0.00	0.00
7,700.0	91.00	359.89	6,331.5	1,468.6	-457.5	1,504.3	0.00	0.00	0.00
7,800.0	91.00	359.89	6,329.8	1,568.6	-457.7	1,603.9	0.00	0.00	0.00
7,900.0	91.00	359.89	6,328.0	1,668.6	-457.9	1,703.5	0.00	0.00	0.00
8,000.0	91.00	359.89	6,326.3	1,768.5	-458.1	1,803.0	0.00	0.00	0.00
8,100.0	91.00	359.89	6,324.5	1,868.5	-458.3	1,902.6	0.00	0.00	0.00
8,200.0	91.00	359.89	6,322.8	1,968.5	-458.5	2,002.2	0.00	0.00	0.00
8,300.0	91.00	359.89	6,321.1	2,068.5	-458.7	2,101.8	0.00	0.00	0.00
8,400.0	91.00	359.89	6,319.3	2,168.5	-458.9	2,201.4	0.00	0.00	0.00
8,500.0	91.00	359.89	6,317.6	2,268.5	-459.1	2,301.0	0.00	0.00	0.00
8,600.0	91.00	359.89	6,315.8	2,368.4	-459.3	2,400.5	0.00	0.00	0.00
8,700.0	91.00	359.89	6,314.1	2,468.4	-459.5	2,500.1	0.00	0.00	0.00
8,800.0	91.00	359.89	6,312.3	2,568.4	-459.7	2,599.7	0.00	0.00	0.00
8,900.0	91.00	359.89	6,310.6	2,668.4	-459.9	2,699.3	0.00	0.00	0.00
9,000.0	91.00	359.89	6,308.9	2,768.4	-460.1	2,798.9	0.00	0.00	0.00
9,100.0	91.00	359.89	6,307.1	2,868.4	-460.3	2,898.5	0.00	0.00	0.00
9,200.0	91.00	359.89	6,305.4	2,968.4	-460.5	2,998.0	0.00	0.00	0.00
9,300.0	91.00	359.89	6,303.6	3,068.3	-460.7	3,097.6	0.00	0.00	0.00
9,400.0	91.00	359.89	6,301.9	3,168.3	-460.9	3,197.2	0.00	0.00	0.00
9,500.0	91.00	359.89	6,300.1	3,268.3	-461.1	3,296.8	0.00	0.00	0.00
9,600.0	91.00	359.89	6,298.4	3,368.3	-461.3	3,396.4	0.00	0.00	0.00
9,700.0	91.00	359.89	6,296.7	3,468.3	-461.5	3,496.0	0.00	0.00	0.00
9,800.0	91.00	359.89	6,294.9	3,568.3	-461.7	3,595.5	0.00	0.00	0.00
9,900.0	91.00	359.89	6,293.2	3,668.2	-461.9	3,695.1	0.00	0.00	0.00



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Site:	MALJAMAR	North Reference:	Grid
Well:	IVAR THE BONELESS FED #22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.0	91.00	359.89	6,291.4	3,768.2	-462.1	3,794.7	0.00	0.00	0.00
10,100.0	91.00	359.89	6,289.7	3,868.2	-462.3	3,894.3	0.00	0.00	0.00
10,200.0	91.00	359.89	6,287.9	3,968.2	-462.5	3,993.9	0.00	0.00	0.00
10,300.0	91.00	359.89	6,286.2	4,068.2	-462.6	4,093.5	0.00	0.00	0.00
10,400.0	91.00	359.89	6,284.5	4,168.2	-462.8	4,193.0	0.00	0.00	0.00
10,500.0	91.00	359.89	6,282.7	4,268.2	-463.0	4,292.6	0.00	0.00	0.00
10,600.0	91.00	359.89	6,281.0	4,368.1	-463.2	4,392.2	0.00	0.00	0.00
10,700.0	91.00	359.89	6,279.2	4,468.1	-463.4	4,491.8	0.00	0.00	0.00
10,800.0	91.00	359.89	6,277.5	4,568.1	-463.6	4,591.4	0.00	0.00	0.00
10,900.0	91.00	359.89	6,275.8	4,668.1	-463.8	4,690.9	0.00	0.00	0.00
11,000.0	91.00	359.89	6,274.0	4,768.1	-464.0	4,790.5	0.00	0.00	0.00
11,100.0	91.00	359.89	6,272.3	4,868.1	-464.2	4,890.1	0.00	0.00	0.00
11,200.0	91.00	359.89	6,270.5	4,968.0	-464.4	4,989.7	0.00	0.00	0.00
11,287.5	91.00	359.89	6,269.0	5,055.5	-464.6	5,076.8	0.00	0.00	0.00
PBHL, 11287.5' MD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-Ivar The Boneless	0.00	0.00	6,269.0	5,055.5	-464.6	670,090.90	676,357.40	32° 50' 27.052 N	103° 45' 32.872 W
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,829.0	5,829.0	0.0	0.0	EST. KOP 5829' MD, 11°/100'	
6,656.6	6,350.0	459.1	-265.1	EOC, 6656.6' MD, 91°, 330° AZI	
7,206.0	6,340.2	975.3	-442.9	PP, 7206' MD	
11,287.5	6,269.0	5,055.5	-464.6	PBHL, 11287.5' MD	



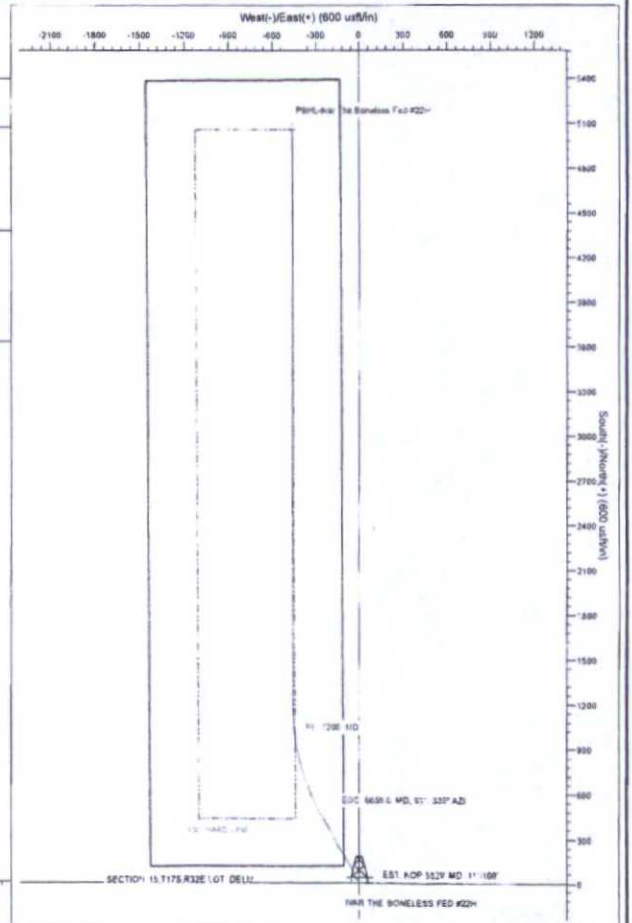
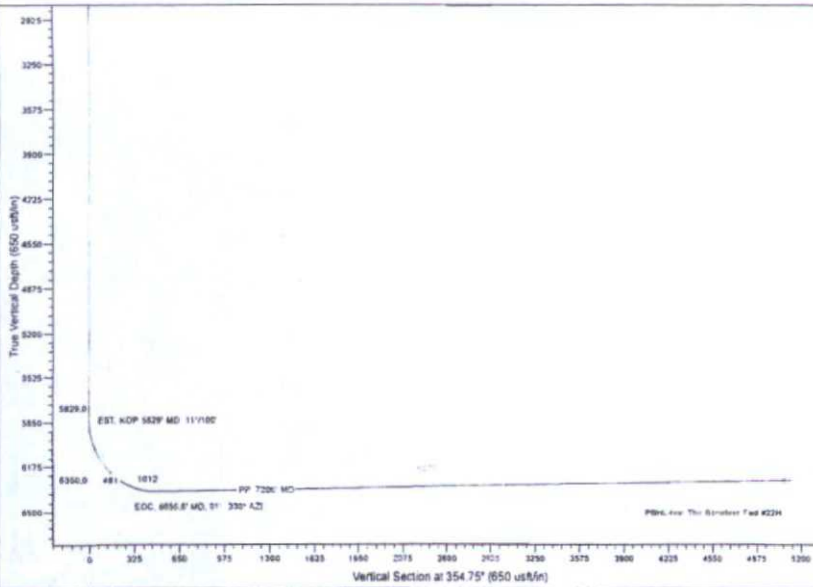
Project: LEA COUNTY, NM
 Site: MALJAMAR
 Well: IVAR THE BONELESS FED #22H
 Wellbore: OWB
 Design: PWPQ

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	5829.0	0.00	0.00	5829.0	0.0	0.0	0.00	0.00	0.0		EST. KOP 5829' MD, 11°11'00"
3	6656.6	91.00	330.00	6350.0	458.1	-265.1	11.00	330.00	481.5		EOC, 6656.6' MD, 91°, 330° AZ
4	7403.7	91.00	359.89	6336.7	1172.3	-456.9	4.00	89.74	1209.2		
5	11287.5	91.00	359.89	6269.0	5055.5	-464.6	0.00	0.00	5076.8	PBHL-Ivar The Boneless Fed #22H	PBHL, 11287.5' MD

LEGEND

--- PBHL



COG Operating LLC

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S on metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. **The concentrations of H₂S of wells in this area from surface to TD are low enough that a contingency plan is not required.**

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold with minimum of one remotely operated choke.
- C. Closed Loop Blow Down Tank
- D. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- E. Auxiliary equipment may include if applicable: mud-gas separator, annular preventer & rotating head.

2. Protective equipment for essential personnel:

- A. SCBA (Self contained breathing apparatus) 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

3. H2S detection and monitoring equipment:

- A. Portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram.
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.
-

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communication at Office.

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

EXHIBIT #7

WARNING
YOU ARE ENTERING AN H₂S
AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CHECK WITH COG OPERATING FOREMAN AT

COG OPERATING LLC
1-432-683-7443
1-575-746-2010

EDDY COUNTY EMERGENCY NUMBERS

ARTESIA FIRE DEPT. 575-746-5050
ARTESIA POLICE DEPT. 575-746-5000
EDDY CO. SHERIFF DEPT. 575-746-9888

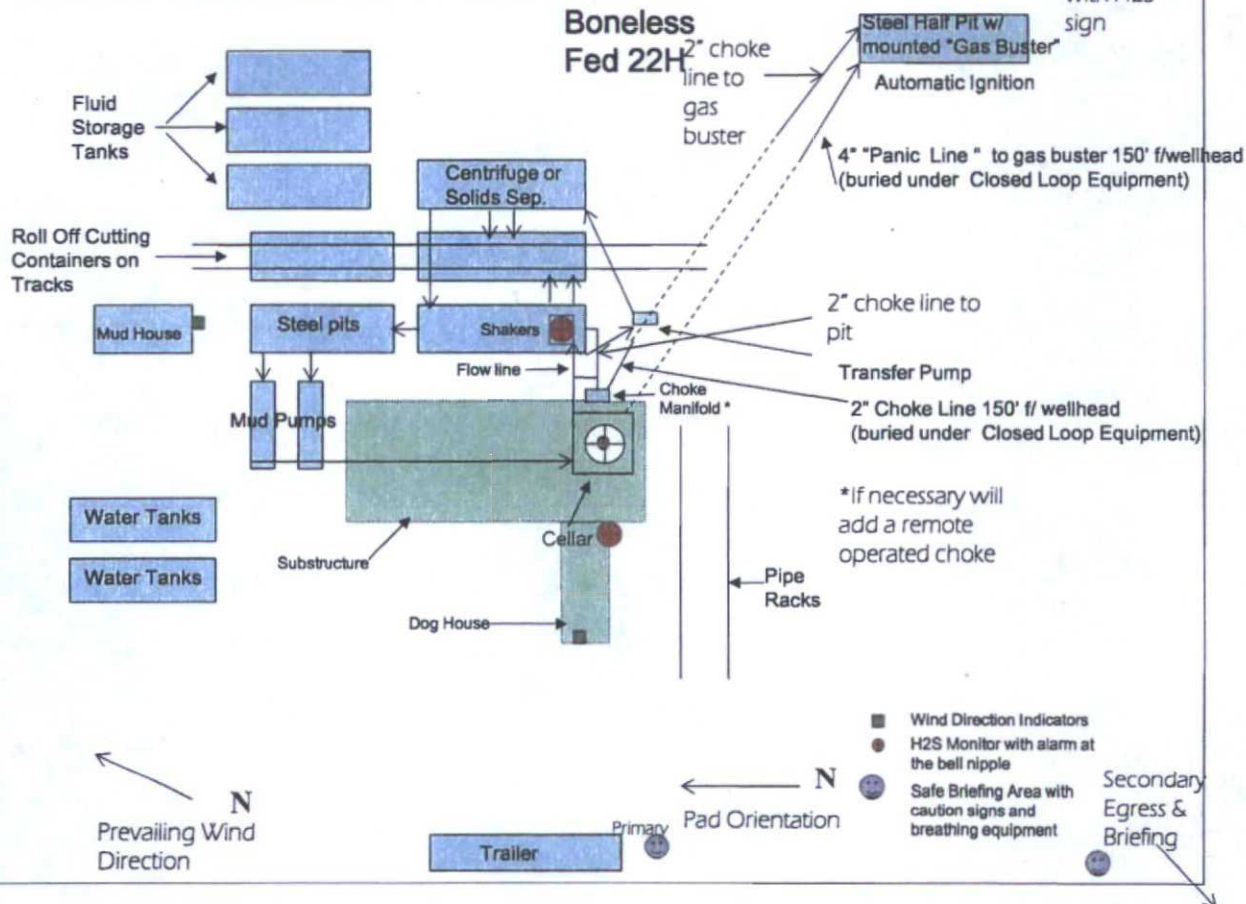
LEA COUNTY EMERGENCY NUMBERS

HOBBS FIRE DEPT. 575-397-9308
HOBBS POLICE DEPT. 575-397-9285
LEA CO. SHERIFF DEPT. 575-396-1196

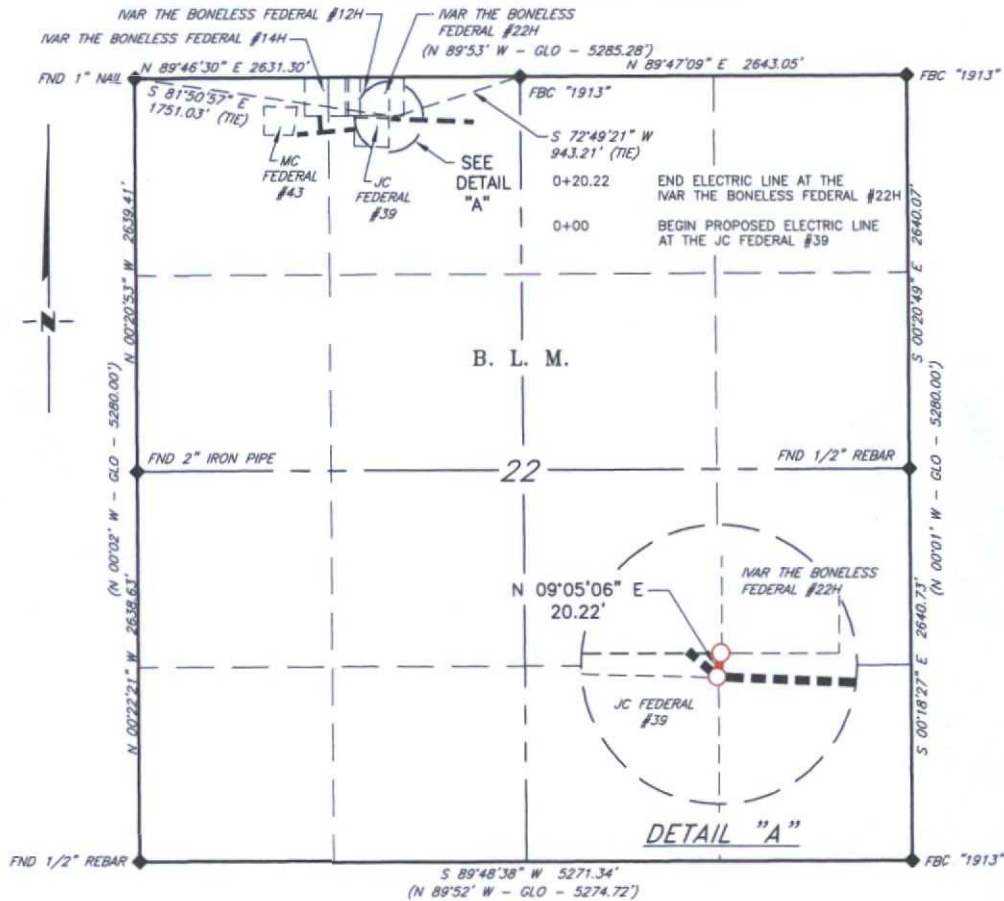
COG Operating LLC

Drilling Location - H2S Safety Equipment Diagram

**EXHIBIT 8-
Ivar the
Boneless
Fed 22H**



COG OPERATING, LLC
I PROPOSED ELECTRIC LINE FROM THE JC FEDERAL #39
TO THE IVAR THE BONELESS FEDERAL #22H
SECTION 22, T17S, R32E,
N. M. P. M., LEA CO., NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 20.22 feet or 1.225 rods in length, lying in Section 22, Township 17 South, Range 32 East, N. M. P. M., Lea County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land

BEGINNING at Engr. Sta. 0+00, a point in the Northwest quarter of Section 22, which bears S 72°49'21" W, 943.21 feet from a brass cap, stamped "1913", found for the North quarter corner of Section 22;

Thence N 09°05'06" E, 20.22 feet, to Engr. Sta. 20+22, the End of Survey, a point which bears S 81°46'09" E, 1,723.06 feet from a 1" nail, found for the Northwest corner of Section 22.

Said strip of land contains 0.014 acres, more or less and is allocated by forties as follows:

NE 1/4 NW 1/4 1.225 Rods 0.014 Acres

SCALE: 1" = 1000'
0 500' 1000'

BEARINGS ARE GRID NAD 27
NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND

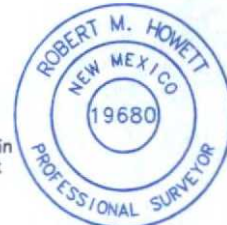
() RECORD DATA - GLO

◆ FOUND MONUMENT
AS NOTED

— PROPOSED ELECTRIC LINES

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett



Firm No.: TX 10193838 NM 4655451

Robert M. Howett NM PS 19680

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NO.	REVISION	DATE
JOB NO.:	LS1506283	
DWG. NO.:	1506283EL2	

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 6-5-15
SURVEYED BY: ML/AA
DRAWN BY: JC
APPROVED BY: RMH
SHEET : 1 OF 1

Water Well Map

Legend

RA11684



32.848961, -103.735745 RA11684 pod2

RA11684 pod3
011
17S02E

Google earth

© 2015 Google



700 ft