HOBBS OCD FEB 0 8 2016 RECEIVED

State of New Mexico DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (675) 393-6161 Fax: (675) 393-0720

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

DISTRICT II 811 S. FIRST ST., ARTESIA, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

1220 SOUTH ST. FRANCIS DR.

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 Santa Fe, New Mexico 87505

☐ AMENDED REPORT

	WELL LOCATION AND	ACREAGE DEDICATION PLAT		
API Number	Pool Code	Pool Name		
30-025- 43067 _	5- <b>43067</b> 97922 WC-025 G-06 S223421L;			
Property Code	Prop	Well Number		
315744	SMALLS	6H		
OGRID No.	Oper COG OPE	Elevation		
229137	3405.7			

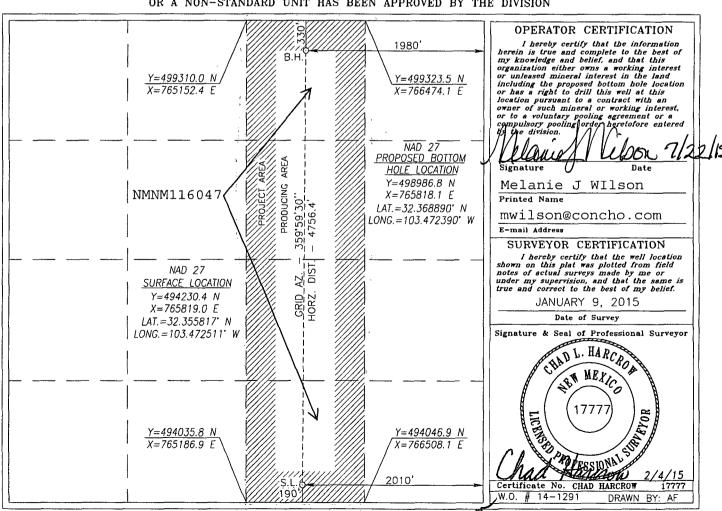
#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	28	22-S	34-E		190'	SOUTH	2010'	EAST	LEA

#### Bottom Hole Location If Different From Surface

ſ	UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
	В	28	22-S	34-E		330' [	NORTH	1980'	EAST	EL
Dedicated Acres   Joint or Infill   Consolidation Code		Code Or	der No.							
160										

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



FEB 1 1 2016

## COG Operating LLC, Smalls Federal 6H

N	Formation integrity test will be performed per Onshore Order #2.  On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.					
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.					
	Are anchors required by manufacturer? No.					
N	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.  See attached schematic					

## 5. Mud Program



A Company of the Comp	Depth	Type	:Weight (ppg)	Viscosity	Water Loss
From	To		a description of the second		
0	Surf. shoe	FW Gel	8.6 - 9.0	28-34	N/C
Surf csg	Int shoe	*Saturated Brine	10.0 - 10.2	28-34	N/C
Int shoe	TMD	Cut Brine	8.6 - 9.3	28-34	N/C

<sup>\*</sup>If lost circulation is encountered, will switch to fresh water.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Pason PVT

## 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.							
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated							
	logs run will be in the Completion Report and submitted to the BLM.							
	No Logs are planned based on well control or offset log information.							
	Drill stem test? If yes, explain							
	Coring? If yes, explain							

	Addi	tional logs planned	Interval	
ı	X	Mud log	Production	

## COG Operating LLC, Smalls Federal 6H

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4869 psi – 2 <sup>nd</sup> Bone Spring Sand (10290' – Lateral TVD)
Abnormal Temperature	. No

Mitigation measure for abnormal conditions.

- Lost circulation material/sweeps/mud scavengers.
- Maintain stock of LCM and weighting materials onsite.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

10111	ations will be provided to the BEW.
N	H2S is present
Y	H2S Plan attached

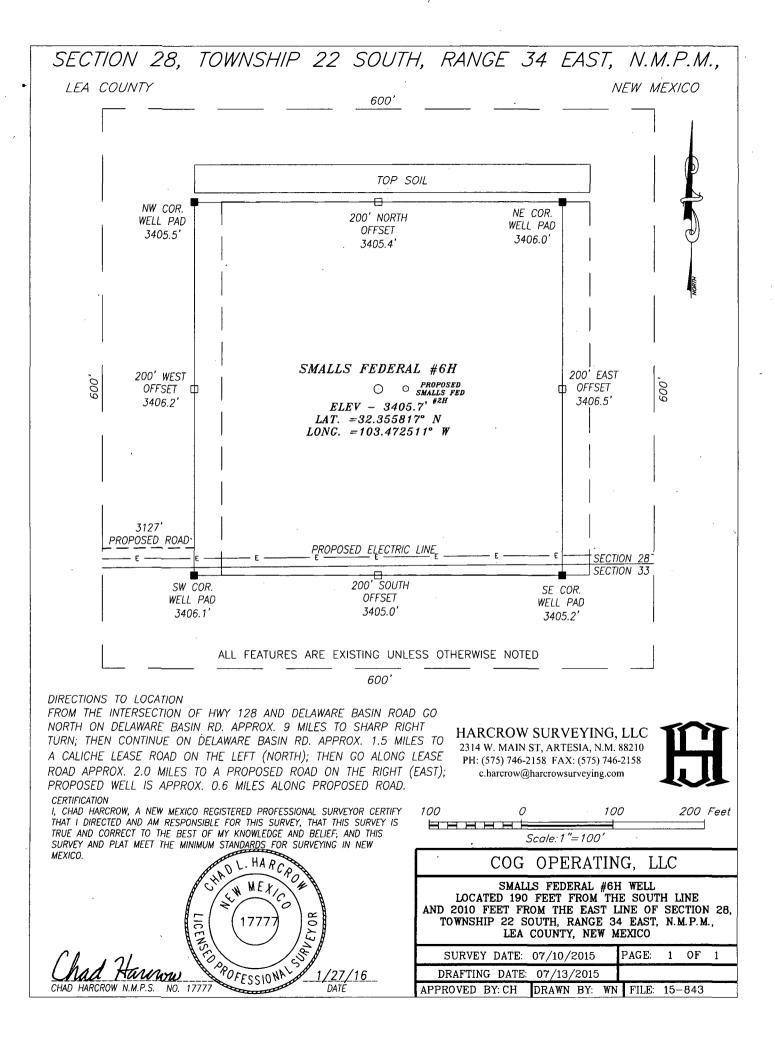
## 8. Other facets of operation

Is this a walking operation? Yes. Will be pre-setting casing? No.

Will well be hydraulically fractured? Yes.

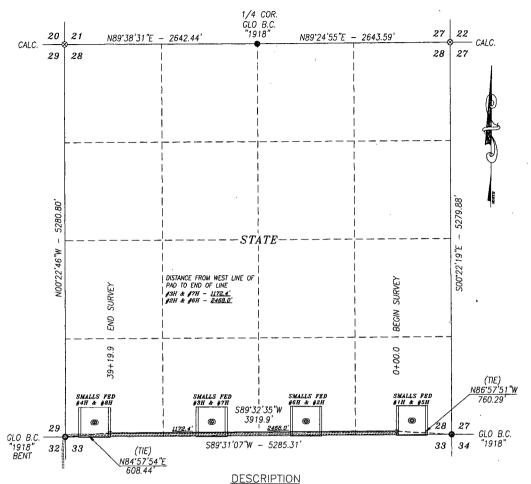
#### Attachments

- Directional Plan
- BOP & Choke Schematics
- C102 and supporting maps
- Rig plat
- H2S schematic
- H2S contingency plan
- Interim reclamation plat



# PIPELINE PLAT COG OPERATING, LLC.

2-7/8 POLY FLOWLINE FROM SMALLS FED #1H & #5H TO THE SMALLS FED #4H & #8H IN SECTION 28, TOWNSHIP 22 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.



A STRIP OF LAND 30.0 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 28, TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM, LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT IN THE SE/4 SE/4 OF SAID SECTION, WHICH LIES N86'57'51"W 760.29 FEET FROM SOUTHEAST CORNER THEN S89'32'35"W 3919.9 FEET TO A POINT IN THE SW/4 SW/4 OF SAID SECTION, WHICH LIES N84'57'54"W 608.44 FEET FROM THE SOUTHWEST CORNER.

SAID STRIP OF LAND BEING 3919.9 FEET OR 237.57 RODS IN LENGTH, CONTAINING 2.700 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 34.08 RODS OR 0.387 ACRES SW/4 SE/4 80.08 RODS OR 0.910 ACRES

SE/4 SW/4 80.08 RODS OR 0.910 ACRES SW/4 SW/4 43.33 RODS OR 0.493 ACRES

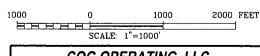
#### BASIS OF BEARING:

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE GRID VALUES.

#### CERTIFICATION

I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT HEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

EN MEXIC



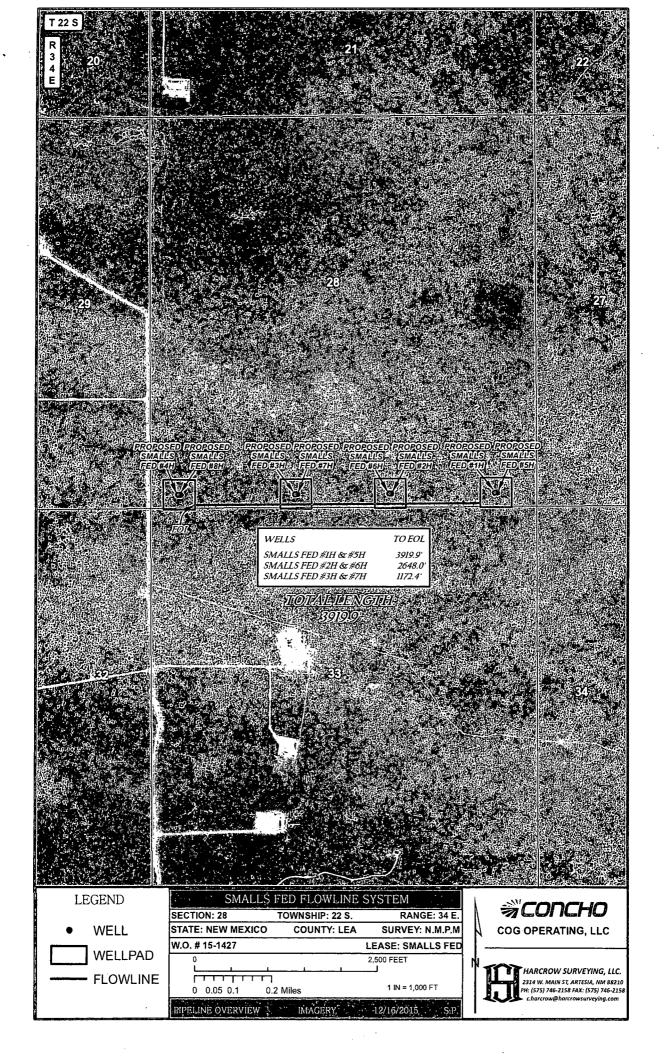
HARCROW SURVEYING, LLC

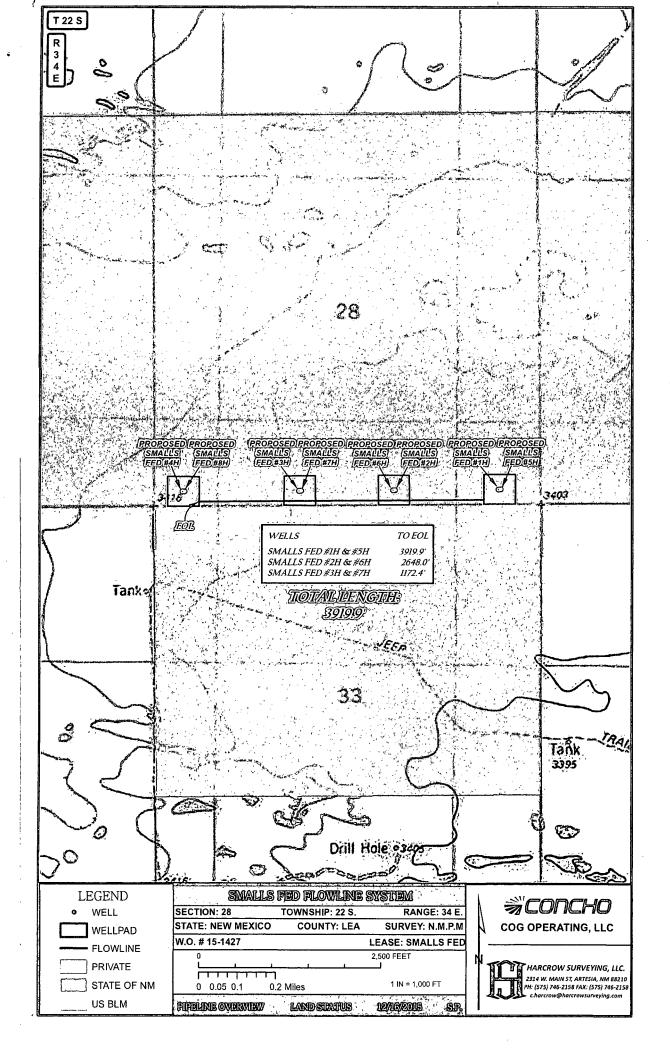
2314 W. MAIN ST, ARTESIA, N.M. 88210 PH: (575) 746-2158 FAX: (575) 746-2158 c.harcrow@harcrowsurveying.com

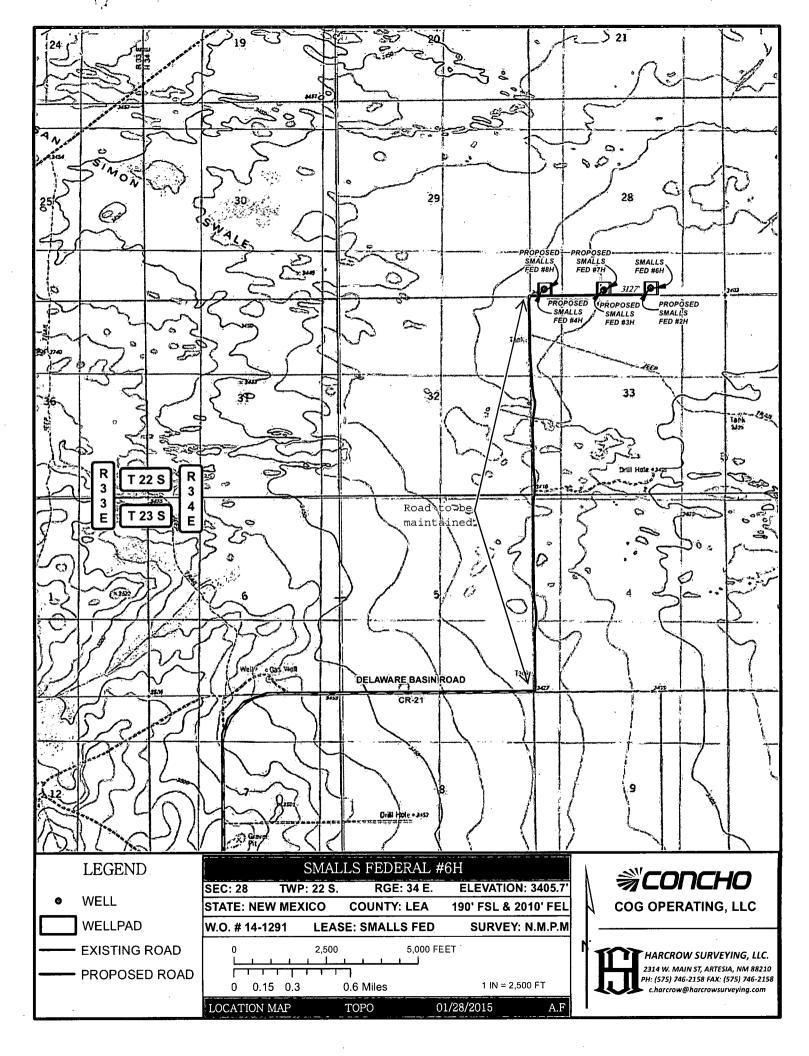
## COG OPERATING, LLC

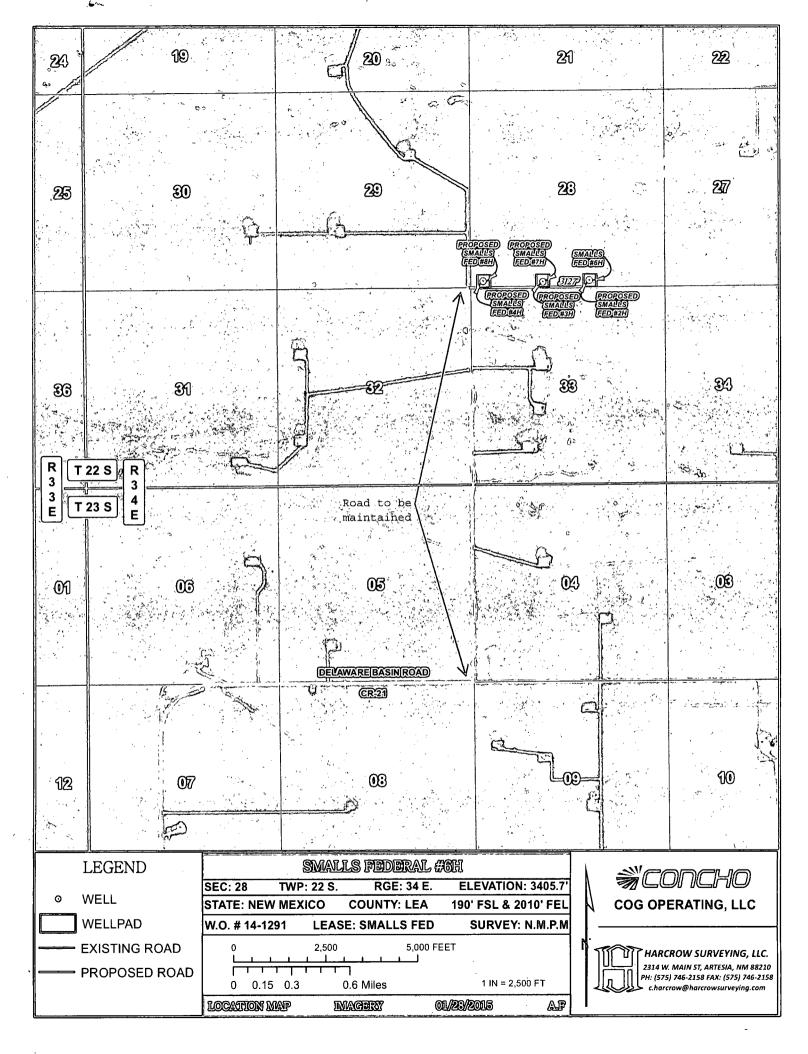
SURVEY OF A PROPOSED PIPELINE LOCATED IN SECTION 28, TOWNSHIP 22 SOUTH, RANGE 34 EAST, LEA COUNTY, NMPM, NEW MEXICO

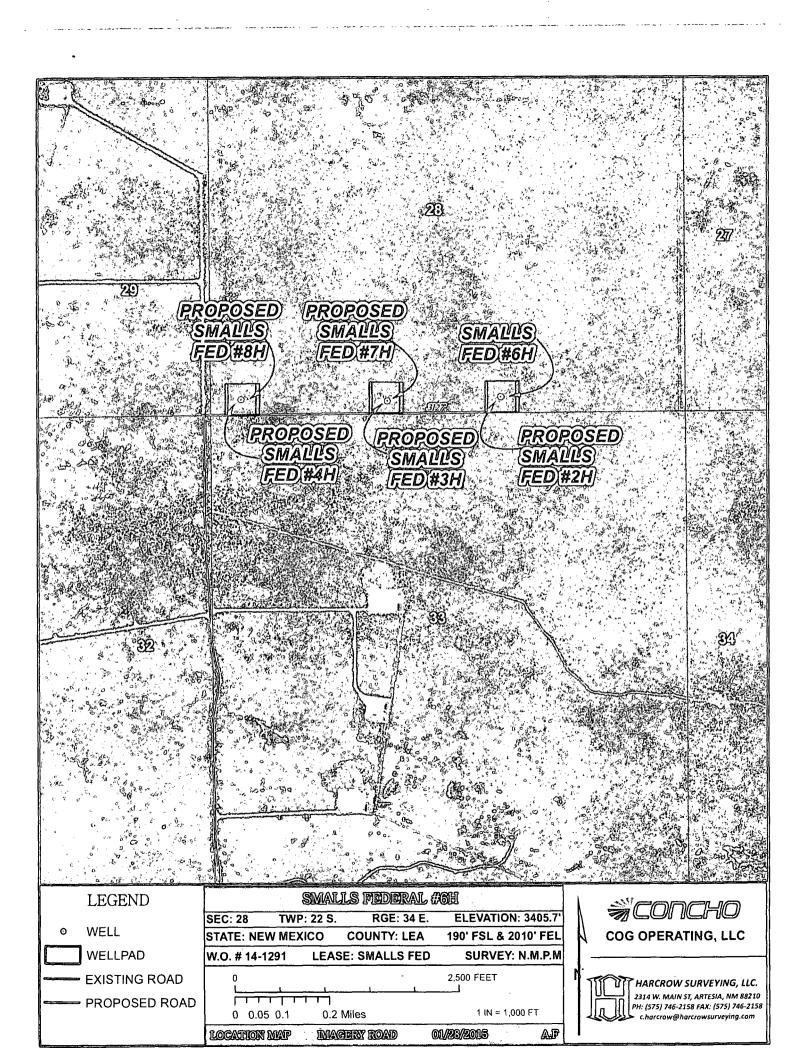
	SURVEY DATE: D	ECEMBER 15, 2015	
	DRAFTING DATE: I	ECEMBER 16, 2015	PAGE 1 OF 1
	APPROVED BY: CH	DRAWN BY: VD	FILE: 15-1427
_			<u> </u>

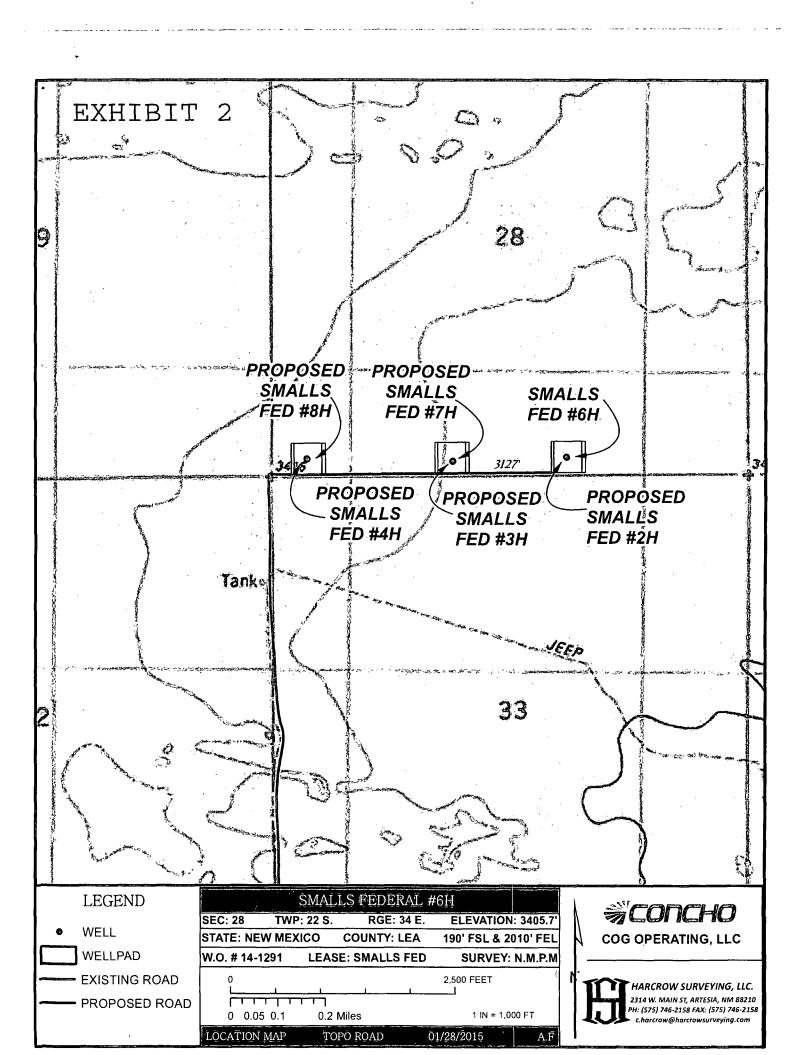












			From Manager and Sales Comme							
` 21	22	23	24	19	20	<b>21</b> ROPOSED	22	23	24	19 20
28	<sup>27</sup> 22S	26 33E	25	30	29 PROPOSED SMALLS FED #8H	SMALLS ED ED #7H 28 SMALL FED #6	H 26 24E	26	25	30 22S
33	34	35	36	31	SMALLS FED #4H	PROPOSED SMALLS PRO FED #3H SMA 33 FED	POSED	35	36	35E 32
04	03	02	01	06	05	04	03	02	01	06
09	10	11	12	07	08	CR-2		11	12	07
16	15	14	13	18	17	16 23S 3	15 34E	14	13	18 23S
21	22	23S 3 23	3E 24	19	20	21	22	23	24	35E 19
28	27	26	25	30	29	28	27	26	25	30
33	34	35	36	31	32	33	34	35	36	31
04	03	02	01	06	05	04	03	02	01	06
09	10	11	12	07	. 08	09	10	11	12	07
16	15	14 M M 3	13	18	17	16 24S	15 34E	14	13	18 24S
## £ (128)	2AS 3	E_	128					The state of the s		35E
L	EGEND			SMALLS	FEDERAL	#6H	`1	-3/15	CARC	

WELL WELLPAD EXISTING ROAD PROPOSED ROAD

	SMAI	LLS FEDERAL #	#6H
SEC: 28	TWP: 22 S.	RGE: 34 E.	ELEVATION: 3405.7'
STATE: NE	W MEXICO	COUNTY: LEA	190' FSL & 2010' FEL
W.O. # 14-1291 LEAS		SE: SMALLS FED	SURVEY: N.M.P.M

0 2,500 5,000 7,500 10,000 12,500 15,000 17,500 FEET

0.5 2 Miles

VIÇÎNITY MAP

01/28/2015

1 IN = 7,000 FT





