

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒

RE-ENTER OLD WELL ☐

NAME OF COMPANY OR OPERATOR

Kinder Morgan CO2 Company

Address

City

State

Phone Number

830 E. Main St. Suite 220, Springerville AZ. 85938

Drilling Contractor
Aztec Drilling

Address Farmington, NM

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor

~~13-110769~~ 13-110713

Well number

10-31-31HSE

Elevation (ground)

7315.6'

Nearest distance from proposed location to property or lease line:

104 feet

Distance from proposed location to nearest drilling, completed or applied-for well on the same lease:

100 feet

Number of acres in lease

640 acres +/-

Number of wells on lease, including this well, completed in or drilling to this reservoir:

2

If lease purchased with one or more wells drilled, from whom purchased.

Name

Address

Well location (give footage from section lines)

1274.6' FWL & 2507.4' FSL

Section - Township - Range or Block and Survey

S. 31, T10NR31E, G&SRM

Dedication per A.A.C. R12-7-104(A)(3)

640

Field and reservoir (if wildcat, so state)

County

APACHE

Distance in miles and direction from nearest town or post office

From Springerville P.O. N58° 42' E 11.65 miles

Proposed depth:

3000' +/-

Rotary or cable tools

Rotary

Approximate date work will start

March 1, 2015

Bond status on File

Organization Report

Filing Fee of \$25.00

Amount

On file ☒

Or attached

Attached ☒

Remarks see attached well plan and prognosis

API # 02-001-20497

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the: Operations Supervisor of the Kinder Morgan

(company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

1/12/2015

Date

Mail completed form to:
Oil and Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ 85701-1315

Permit Number: 1198

Approval Date: 1-14-2015

Approved By: SL Ratz

NOTICE: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Application to Drill or Re-enter
File Two Copies

Form No. 3

(Complete Reverse Side)

5/96

1. Operator shall outline on the plat the acreage dedicated to the well in compliance with A.A.C. R12-7-107.
2. A registered surveyor shall show on the plat the location of the well and certify this information in the space provided.
3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION.
4. Is the operator the only owner in the dedicated acreage outlined on the plat below ? YES ☒ NO ☐
5. If the answer to question four is no, have the interests of all owners been consolidated by communitization agreement or otherwise?
YES ☐ NO ☐ If answer is yes, give type of consolidation _____
6. If the answer to question four is no, list all the owners and their respective interests below:

<p>Owner _____</p> <p>Land Description S. 31 T10NR31E, G&SRM</p> <p style="text-align: center;">SW1/4</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p style="text-align: right;"><i>Thomas White</i></p> <p>Thomas White</p> <p>Name _____</p> <p>Ops. Sup. C02</p> <p>Position _____</p> <p>Kinder Morgan C02</p> <p>Company _____</p> <p>1/12/2015</p> <p>Date _____</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">REGISTERED LAND SURVEYOR</p> <p style="text-align: center;">I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p style="text-align: center;">Date Signed _____</p> <p style="text-align: center;"><i>Daniel R. Muth</i></p> <p style="text-align: center;">ARIZONA RLS No. 31028</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Date Surveyed 11/19/2014</p> <p>Registered Land Surveyor</p> <p>Daniel R. Muth PLS</p> <p>Certificate No. Az RLS No. 31028</p> </div>
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WELL 10-31-31HSE
NAD83/UTM/ZN12
LAT: N34°13'09.59"
LNG: W109°06'32.76"
ELEV: 7315.6'

1274.6

2507.4

WELL 11-31-31WD

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement	Type
See attached							



Kinder Morgan Production Co.

SJGU, Well No. 10-31-31HSE
Apache County, Arizona
Quote No.: 121814596
Rig: Aztec 711



SITE DETAILS: SJGU 10-31-31HSE

Site Centre Latitude: 34° 13' 9.590 N
Longitude: 109° 6' 32.760 W

Positional Uncertainty: 0.00
Convergence: 1.06
Local North: Grid

PROJECT DETAILS: Apache County, Arizona

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD83 Arizona - HARN
Ellipsoid: GRS 1980
Zone: Zone 12S (114 W to 108 W)

System Datum: Mean Sea Level

Target Center Line:
2679' KBTVD

Window: 10' Above/Below Lateral

Dip: 0.00° (90.00°)



Azimuths to Grid North
True North: -1.06°
Magnetic North: 8.39°

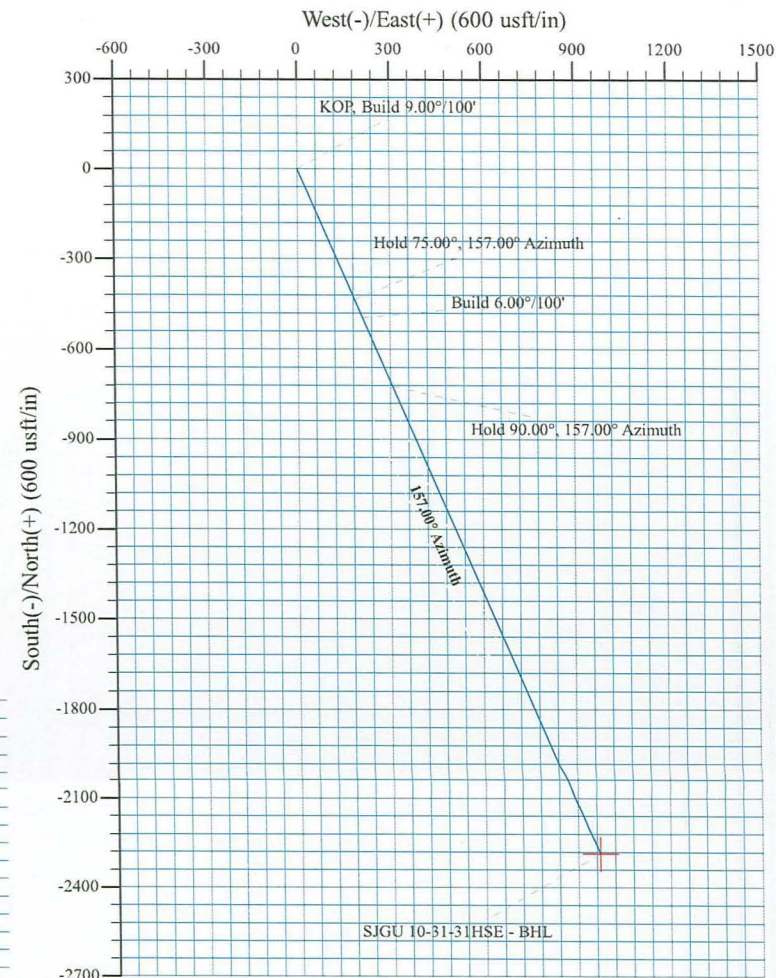
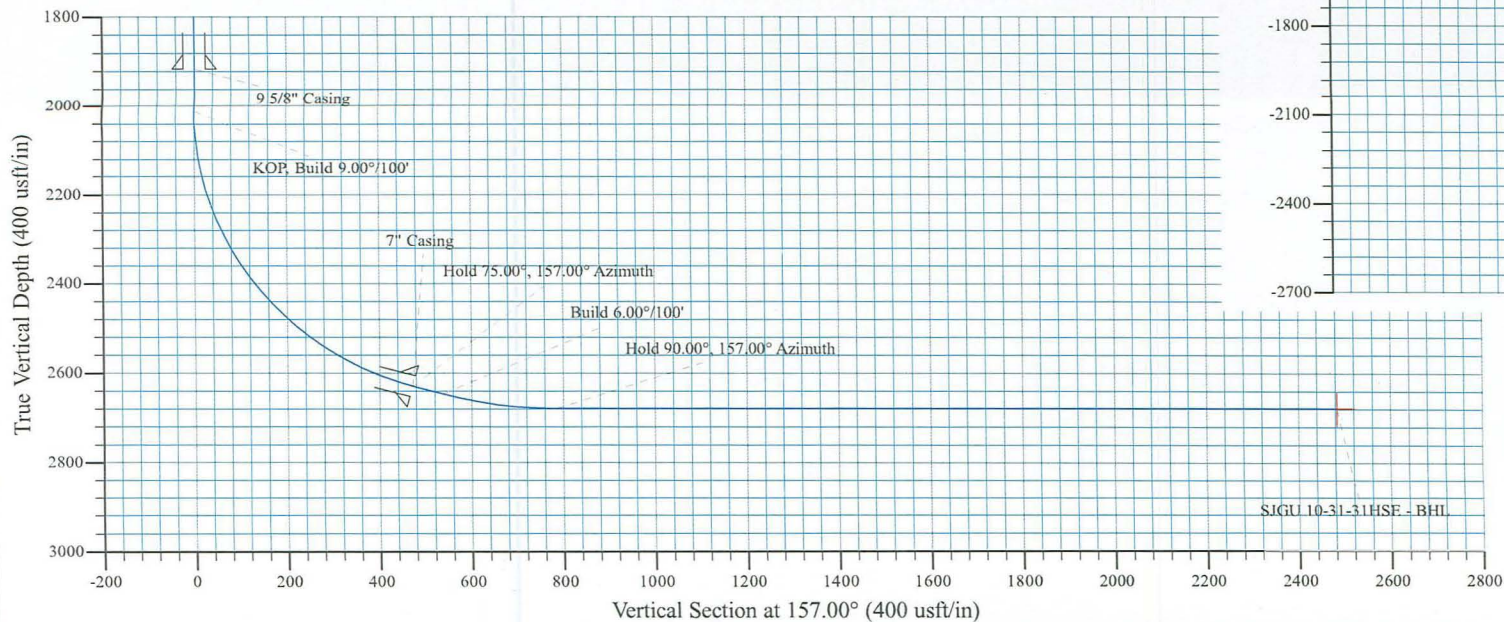
Magnetic Field
Strength: 48811.3nT
Dip Angle: 60.90°
Date: 1/12/2015
Model: HDGM

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
SJGU 10-31-31HSE - BHL	2679.00	-2286.49	970.56	45234145.51	2212849.83	34° 12' 46.797 N	109° 6' 21.711 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	2014.00	0.00	0.00	2014.00	0.00	0.00	0.00	0.00	0.00		
3	2847.43	75.00	157.00	2629.00	-434.39	184.39	9.00	157.00	471.91		KOP, Build 9.00°/100'
4	2914.65	75.00	157.00	2646.40	-494.16	209.76	0.00	0.00	536.84		Hold 75.00°, 157.00° Azimuth
5	3164.62	90.00	157.00	2678.94	-721.63	306.32	6.00	0.00	783.95		Build 6.00°/100'
6	4864.61	90.00	157.00	2679.00	-2286.49	970.56	0.00	0.00	2483.95	SJGU 10-31-31HSE - BHL	Hold 90.00°, 157.00° Azimuth
											PBHL - Lateral



DRILLING PROGNOSIS **2015 ST JOHNS DRILLING PROGRAM** **DRILLING PROGNOSIS**

WELL: SJGU 10-31-31 HSE
 AFE: 200811
 PROP ID: 37873

FIELD: St Johns Gas Unit

API # 02-001-20497

SURFACE LOCATION:
 SW ¼, S. 31 T10N R31E
 Apache County, Arizona
 2507' FSL & 1275' FWL
 Longitude: W 109° 06' 32.76"
 Latitude: N 34° 13' 09.59"

OBJECTIVE: Precambrian Grantee
 ELEVATION: 7,316 ft

A FOCUSED EFFORT WILL BE EXPECTED BY ALL PARTIES TO ELIMINATE ANY / ALL ACCIDENTS DURING THE EXECUTION OF THIS DRILLING PROJECT.

GEOLOGY / FORMATION TOPS

WELL PROGRAM

FORM	DEPTH		CASING PROFILE	HOLE SIZE	CASING SPECS
	TVD	MD			
	80'	80'			Conductor
San Andres	605	605		17-1/2"	13-3/8" 54.5-ppf J-55 STC
Glorietta/Cocon	952	952'			Adapt to conditions, recommend set at Glorietta
Corduroy/Yeso	1167	1,167'		12-1/4"	9-5/8" 36-ppf J55 STC
Ft. Apache	1825	1,825'			Set 9-5/8" casing in top of Amos Wash
Big A Butte KOP Build 8'/100'	1915 2014	1,915' 2,014'		8-3/4"	7" 23-ppf J55 STC
Oak Creek Abo	2172 2180	2,173' 2,182'			
Fractured Granite	2,629'	2,847'			
Proposed TD	2,679'	4,320'		6-1/8"	Open Hole

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