Susana Martinez Governor

David Martin Cabinet Secretary-Designate

Brett F. Woods, Ph.D. Deputy Cabinet Secretary



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 6 - 13 - 13Well information; Operator Digan, Well Name and Number Cisco ($010 \pm 91R$ API# 30-045-35483 Section 34, Township 26 (N)S, Range 13 E(W)

Conditions of Approval:

(See the below checked and handwritten conditions)

- Notify Aztec OCD 24hrs prior to casing & cement.
- o Hold C-104 for directional survey & "As Drilled" Plat
- o Hold C-104 for NSL, NSP, DHC
- Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

✓ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

NMOCD Approved by Signature

-16-2019

Date

1220 South St. Francis Drive - Santa Fe, New Mexico 87505 Phone (505) 476-3460 - Fax (505) 476-3462 - www.emnrd.state.nm.us/ocd

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NJ. I						8. Lease Name and Well	
	lb. Type of Well:	Oil Well X Gas	Well Other	X Single Zone Multi	ple Zone	Cisco Com #9	
	2. Name of Operator	Dugan Produc	ction Corp.			9. API Well No. 30-045-35	
		East Murray 1 mington, NM 8		36. Phone No. (include area code) 505-325-1821		10. Field and Pool, or Expl Basin Fruitland	
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	<u></u>		requirements of Onsho	24. Attachments re Oil and Gas Order No.1, shall be a	ittached to th	is form:	
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This action is subject to technical and procedural raying bursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". • • •

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District IState of New MexicoRev1625 N. French Dr., Hobbs, NM 88240Phone: (575) 393-6161 Fax: (575) 393-0720State of New MexicoRevDistrict II811 S. First St., Artesia, NM 88210OIL CONSERVATION DIVISIONJUN 27 2013Phone: (575) 748-1283 Fax: (575) 748-9720District III1020 South St. Francis Dr.1000 Rio Brazos Road, Aztee, NM 874101220 South St. Francis Dr.Santa Fe, NM 87505Phone: (505) 334-6178 Fax: (505) 334-6170Santa Fe, NM 87505Farmington Field Office AN Surecu of Lond Manogometric	VENDED REPORT				
WELL LOCATION AND ACREAGE DEDICATION PLAT					
30.045-35-183 TIGOR Basin Fruitland COAL					
	Well Number				
CISCO COM 91R					
	⁹ Elevation				
DUGAN PRODUCTION CORPORATION	6288				
" Surface Location					
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West lin	e County				
К 34 26 N 13 W 2200 SOUTH 1500 WEST	SAN JUAN				
"Bottom Hole Location If Different From Surface					
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West lin	e County				
¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.	15 15 15 14				
320.34 W/2	CONS. DIV.				
20 in	DICT O				

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.

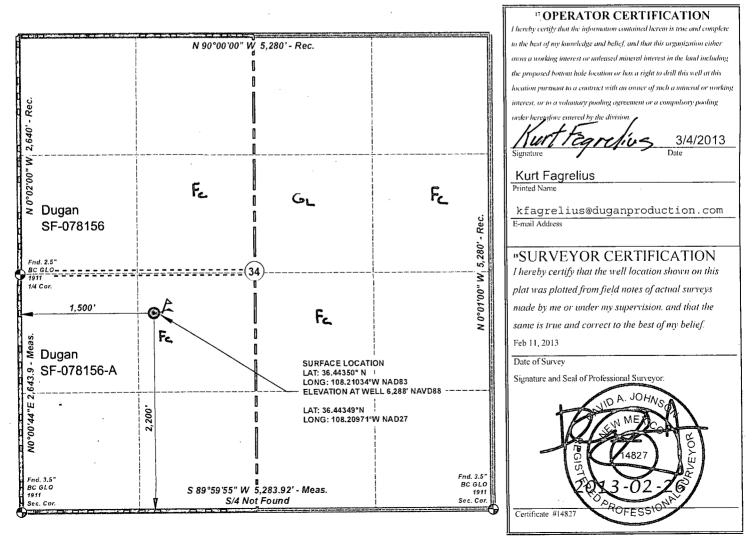


EXHIBIT B OPERATIONS PLAN

Cisco Com #91R

APPROXIMATE FORMATION TOPS:

Ojo Alamo	115′
Kirtland	2051
Fruitland	1025′
Pictured Cliffs	1360′
Total Depth	1500'

Catch samples every 10 feet from 1200-feet to total depth.

LOGGING PROGRAM:

Run cased hole GR-CCL-CNL from total depth to surface.

CASING PROGRAM:

Hole	Casing		Setting	Grade and
<u>Size</u>	<u>Size</u>	<u>Wt./ft.</u>	Depth	<u>Condition</u>
12-1/4″	8-5/8″	24#	120'	J-55
7-7/8″	5-1/2″	15.5#	1500′	J-55

Plan to drill a 12-1/4" hole and set 120' of 8-5/8" OD, 24#, J-55 surface casing. Then plan to drill a 7-7/8" hole to total depth with gel-water mud program to test the Fruitland Coal. 5-1/2", 15.5#, J-55 production casing will be run and cemented. Cased hole GR-CCL-CNL log will be run. Productive zone will be perforated and fractured. After frac, the well will be cleaned out and production equipment will be installed.

CEMENTING PROGRAM:

<u>Surface</u>: Cement to surface with 75-cf Class B + 2% CaCl₂. Circulate to surface.

Production Stage- Cement w/175-sx Premium Lite FM 3% BWOC Calcium Chloride + 0.25 lbs/sx Celloflake + 5 lbs/sk LCM-1 + 0.4% BWOC FL-52 + 8% BWOC Bentonite + 0.4% BWOC Sodium Metasilicate + 112.3% fresh water (12.1 lb/gal, 2.13 cu ft/sx - 373-cu ft slurry). Tail w/75-sx Type III cement + 1 lb/sk Calcium Chloride + 0.25 lb/sx Celloflake + 0.2% BWOC FL-52 + 59% fresh water (14.6 lb/gal, 1.38 cu ft/sx-103-cu ft slurry).

Total cement slurry for production stage is 475-cf Circulate cement to surface. \checkmark

An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement. An adequate number of casing centralizers will be run through useable water zones to ensure that casing is centralized through these zones. The adequate number of centralizers will be determined based on API standards. Centralizers to impart a swirling action around the casing will be used just below and into the base of the lowest usable water zone. These devices will assist mud displacement, increase cement bonding potential and create an effective hydraulic seal. A chronological log will be kept which records the pump rate, pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM after completion of the job.

Maximum Anticipated Bottom Hole Pressure - 300 psi.

Drilling Fluid - will be fresh water with bentonite 8.9#/gal.

WELLHEAD EQUIPMENT:

Huber 8-5/8"x5-1/2" casing head, 1000# WP, tested to 2000#. Huber 5-1/2"x2-7/8" tubing head, 1000# WP, tested to 2000#.

Blow-Out Preventer Equipment (BOPE): Exhibit D.

Annular preventer, double ram, or 2 rams with one being blind and one being a pipe ram.

Kill line (2" minimum)

1 kill line valve (2" minimum)

1 choke line valve

2 adjustable chokes

Upper kelly cock valve with handle available.

Safety valve and subs to fit all drill string connections in use.

Pressure gauge on choke manifold. 2" minimum choke line.

Fill-up line.

Working pressure for all BOPE will be 2,000 psi or greater.

Will test BOPE (blind rams, pipe rams, choke manifold and surface casing) separately. Each test will include a low pressure test to 250-psig held for five minutes and a high pressure test to 800-psig held for thirty minutes (with no more than a 10-percent pressure drop during the duration of the tests). If a 10-percent or greater pressure drop occurs; a packer will be run to isolate the surface casing and BOPE to locate the source of the leak.

Contacts:	Dugan Prod. Cor	p. Office & Radio	Dispatch: 325-1821
	Gerald Wright	Kurt Fagrelius	John Alexander
	632-5150 (H)	325-4327 (H)	325-6927 (H)
	330-9585 (M)	320-8248 (M)	320-1935 (M)



United States Department of the Interior Bureau of Indian Affairs Navajo Region Branch of Real Estate Services P.O. Box 1060 Gallup, New Mexico 87305-1060

IN REPLY REFER TO N425/Leases/Permits (Minerals)

SEP 1 2 2014

7002 0510 0002 6003 8101 CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Bureau of Land Management Farmington District Office 6251 College Boulevard, Suite A Farmington, New Mexico 87402

SEP 22 2014

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Dear Sir:

An administrative review has been conducted on the following proposed Application for Permit to Drill (APD) submitted by **Dugan Production Corporation**.

Cisco Com No. 91R, Federal Lease No: SF-078156-A. The proposed well is described as 2200'FSL / 1500'FWL, located in Section 34, T. 26 N, R. 13 W, San Juan County, New Mexico. Included in the approved disturbance is a well pad containing 0.36 acres, access road containing 0.79 acres and pipeline containing 1.59 acres, for a combined total of 2.74 acres, more or less. This location is on the Navajo Nation Trust Lands and within Navajo Indian Irrigation Project (NIIP) designated boundaries. **(SURFACE ONLY)**

Amended Resolution of the Resources Committee of the Navajo Nation Council No: **RDCJN-05-11** passed on **June 14, 2011**, authorized the Navajo Nation Land Department to issue consent letters for APD's and Construction of Associated Ancillary Facilities. Consent letter dated August 25, 2014, approves the enclosed **Dugan Production Corporation's APD**. Please note that the Resources Committee set certain terms and conditions which must be followed. The Navajo Nation Environmental Protection Agency also set specific terms and conditions which must be followed. Other required clearances from the Navajo Nation have been obtained and are on file.

We concur with approval of the above referenced application, provided enclosed Bureau of Indian Affairs and the Navajo Nation stipulations are adhered to and made a part of the drilling plan.

Any questions regarding this application may be directed to Ms. Bertha Spencer, Supervisory Realty Specialist, Branch of Leases/Permits Section (Minerals) at (505) 863-8336.

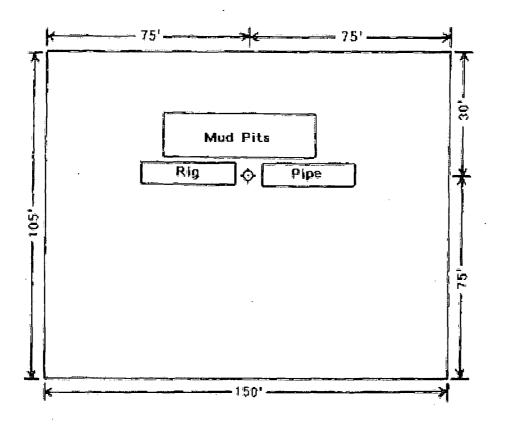
Sincerely,

Regional Director, Navajo

Enclosures

cc: Dugan Production Corporation, 709 East Murray Drive, Farmington, NM 87401 Navajo Nation, Attn: Minerals Depart, P.O. Box 1910, Window Rock, AZ 86515 Navajo Nation, Division of Natural Resources, Attn: Project Review Office BIA-Navajo Indian Irrigation Project, 304 N. Auburn, Suite B, Farmington, NM 87401

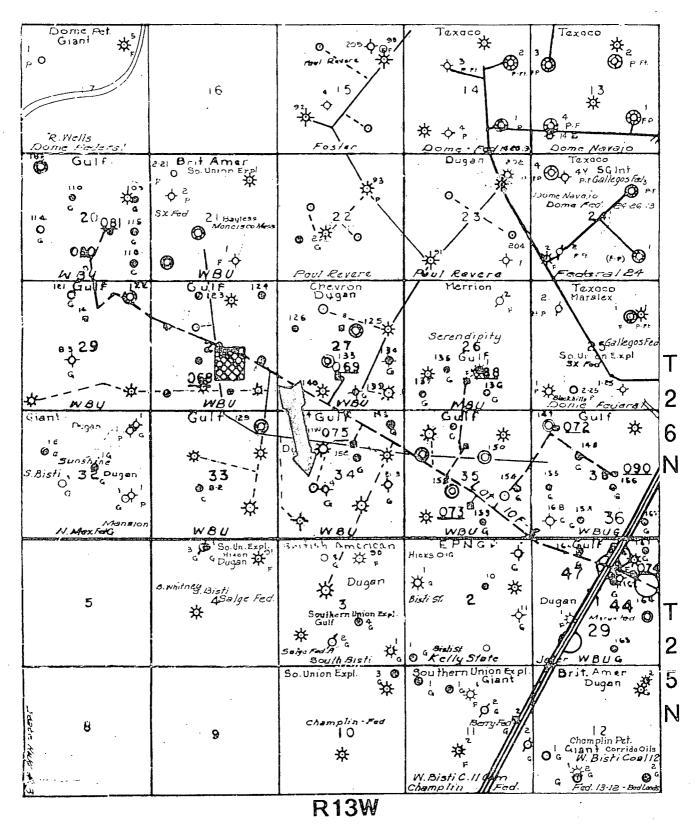
EXHIBIT C.



Typical Location For a Fruitland Coal Well

DUGAN PRODUCTION CORP. Cisco Com #91R

EXHIBIT F.



Dugan Production Corp.

Cisco Com #91R

