State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. **Deputy Cabinet Secretary** **David R. Catanach Division Director Oil Conservation Division**

N/S, Range



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: 7-18-15 Well information; Operator, Rigan, Well Name and Number Kinbeto (om #90 API# 30-045-35695, Section 30, Township 23

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
- Hold C-104 for NSL, NSP, DHC 0
- Spacing rule violation. Operator must follow up with change of status notification on other well 0 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 0 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

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

2	OIL CONS. DIV DIST.	3		EIVED		
Form 3160 -3 (March 2012)	NOV 2 4 2015		JUL	2 1 2015		PPROVED 1004-0137 ober 31, 2014
	UNITED STATE DEPARTMENT OF THE	INTERIOR	Farmingto	n Field Offi	5. Lease Serial No.	100 Lan
	BUREAU OF LAND MA		Bureau of La	nd Manage	areff Indian, Allotee of	
la. Type of work:		TER			7 If Unit or CA Agreen	510
lb. Type of Well:	Oil Well X Gas Well Other	X Sir	ngle Zone 🗌 Mul	tiple Zone	8. Lease Name and We Kinbeto Co	
 Name of Operat Dugar 	n Production Corp.				9 API Well No. 30-045-3	5695
	East Murray Drive mington, New Mexico 87401		(include area code) 25-1821		10. Field and Pool, or Ex Basin Fruitla	
At surface 900			ents.*) Long. 107.93		1]. Sec., T. R. M. or Blk Sec. 30, T23N	and Survey or Area , R10W NMPM
4 Distance in miles Approx. 4	and direction from nearest town or post office* 0-miles southeast of Bloomfield,	New Mexic	0		12 County or Parish San Juan	13. State NM
 Distance from pr location to neare: property or lease (Also to nearest) 	st 900-Feet	16. No. of a 1958	cres in lease 3.98-Acres		- 324.6 Acres	u
 Distance from proton to nearest well, d applied for, on the 	rilling, completed, NIA	19 Proposed Depth 20. BLM/BIA Bond Na. on file 820-Feet On File		40		
I. Elevations (Sho 6517-GL	w whether DF, KDB, RT, GL, etc.)	22 Approxim	nate date work will s P	tart*	23. Estimated duration 5-days	Sel.
17		24. Attac	hments			
 Well plat certified A Drilling Plan. A Surface Use P 	leted in accordance with the requirements of Onsh I by a registered surveyor. Ian (if the location is on National Forest System led with the appropriate Forest Service Office).		4 Bond to cover liem 20 above 5 Operator certi	the operations). fication	s unless covered by an e mation and/or plans as n	
25. Signature	witzquis		(Printed Typed) Kurt Fagrelius	1		Date 7/18/2015
Approved by (Signati	An	Name	(Printed Typed)			Date //
<u>Fitle</u>	Allanke le	Office		-		11/20/19
Application approva	al does not warrant or certify that the applicant ho		FF	ghts in the subje	ect lease which would en	title the applicant to
conduct operations t Conditions of appro	hereon. val, if any, are attached					8 A.S. 2
Title 18 U.S.C. Section States any false, fiction	on 1001 and Title 43 U.S.C. Section 1212, make it a tious or fraudulent statements or representations	a crime for any p as to any matter v	erson knowingly an vithin its jurisdiction.	d willfully to ma	ike to any department or	agency of the United
(Continued on	page 2)				*(Instr	uctions on page 2)
will be used	SUBJECT TO HATTACHED IREMENTS" ON FEDERA	Itland Coal ES NOT RE FROM OBT ATION REQ A AND INI	WILDE COMPA LIEVE THE L AINING ANY UIRED FOR DIAN LANDS	ESSEE AN	pproximately 38	psi BOP d' subject to techni dural review pursua 65.3 and appeal 43 CFR 3165.4
GENERAL REQU	IREMENTS ON FEDERA	NMOCI				

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District.1 1625 N French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax. (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone (505) 334-6178 Fax. (505) 334-6170 <u>District IV</u> 1220 S St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3460 Fax. (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION Bureau of Land Management 1220 South St. Francis Dr.

Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-04	API Number	695	7/	² Pool Code		BASIN	⁹ Pool Name I FRUITLAND			
Property Code					⁵ Property Name KINBETO COM			° v	⁶ Well Number 90	
⁷ OGRID No. 006515 DUGAN PRODUCTION CORPORAT							⁹ Elevation N 6517			
	The second			1.0.00	" Surface Lo	ocation	3	Second States		
UL or lot no. B	Section 30	Township 23 N	Range 10 W	Lot Idn	Feet from the 900	North/South line NORTH	Feet from the 1637	East/West line EAST	County SAN JUAN	
1000			" Bott	om Hole	Location If I	Different From	Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
¹² Dedicated Acro _324.60 E/	2	n Infill ¹⁴ Co	onsolidation Co	de ¹⁵ Order	r No.					

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.

24		03'29" W 2' - Meas.	9 /	3'18" W Fnd. 2.5" BC GLO 1942 ''- Meas. Sec. Cor.	(20)
N 01°11'00" E 2633.38' - Meas.	ELE	E LOCATION KINBETO (LAT: 36.3 LONG: 107.93471° W ATION AT WELL: 6517' LAT: 36.3 LONG: 107.93409° W	20244° N V NAD83 NAVD88 20242° N	1637, 1922 N 00°50'35" E 2629.05'- Meas.	
-	Fnd. 2.5" BC GLO 1942 1/4 Cor.	22	Dugan Prod. NM-13956	GL	2.5" BC 0 1942 4 Cor.
N 1°11'E 2633.06'- Rec.		DIV DIST. 3 4 2015	Dugan Prod. NM-36951	N 00°51' E 2629.44' - Rec.	(29)
	1365.50' - Rec.	1346.40' - Rec.	2692.80 89°00' W - Rec.	'- Rec.	(32)



- 1. Prior to ground disturbance, brush, grasses and sage will be brush-hogged to ground level.
- 2. Following removal of all vegetation, all topsoil (uppermost 6" of soil) will be removed and stockpiled in the construction zone (See Exhibit 6). Top soil will not be used for any construction related activity. The top soil will be segregated to prevent mixing with sub-surface soils. Stock piles will be shallow enough to prevent sterilization of the soil. Topsoil may contain small pieces of brush-hogged material (grasses, brush and sage). Compaction of the top soil will be minimized by keeping vehicle and equipment traffic from crossing over the stock piles. Sediment, erosion control devices (wattles or fences) or "best management practices" will be used to prevent wind and water erosion of the topsoil until it has been redistributed during reclamation.
- 3. Construction materials for well pad will be obtained on-site. If additional material is needed, it will be obtained from existing private or approved permitted sources (providing it does not contain any noxious weeds) and will be transported to the construction site with trucks over existing roads in the area.

The maximum cut will be 3.8-feet on the north corner (#3) and there will be a 2.2-foot fill on the south corner (#6). See Exhibit 5a.

- 4. As determined during the onsite inspection on April 8th and 9th, 2015: a drain to collect surface runoff will be constructed on the northwest and northeast sides of the pad draining to the southwest (Exhibit 5a).
- 5. Construction equipment could include a chain saw, brush hog, maintainer, excavator and a dozer.
- C. Pipeline is described in 4.B. above and shown on Exhibit 4. There will be no construction activity when soils are water saturated or frozen.
 - 1. Prior to ground disturbance, brush, grasses and sage will be brush-hogged to ground level.
 - 2. Following removal of all vegetation, all topsoil (uppermost 6" of soil) will be removed and stockpiled. The top soil may contain small pieces of brush-hogged material (grasses, brush and sage). The top soil will be segregated to prevent mixing with the sub-surface soil. The top soil will be stacked on the working side and at the greatest distance from the pipe ditch. The sub-surface soil will be stacked on the inside of the topsoil on the working side and closest to the ditch. Once construction of the pipeline is complete, the subsurface soil will be mopped back into the ditch over the pipe. After all of the subsurface soil has been placed over the pipe, the top soil will then be brought in over the top and spread as layer uniform in thickness over the top of the subsurface soil. All necessary precautions to prevent mixing of the top soil and subsurface soil will be taken. (See Appendix A, page 11)
 - 3. Construction materials for pipeline will be obtained on-site. If additional material is needed, it will be obtained from existing private or approved permitted sources (providing it does not contain any noxious weeds) and will be transported to the construction site with trucks over existing roads in the area.
- 7. Methods for Handling Wastes -

A. Closed loop drilling system will be used to contain all liquids and solids waste associated

with drilling operations is shown in Exhibit 6.

- 1. System will be designed and maintained to prevent contamination of fresh water and protect wildlife, public health and the environment.
- Stockpile top-soil prior to leveling well pad and digging depression. The top-soil will be kept separate from sub-soil and used as a final cover for interim reclamation of the depression and well pad.
- A depression approximately 45-feet long by 12-feet wide and 3-feet deep with vertical sidewalls will be constructed. The depression will be constructed with a firm foundation and interior slopes, smooth and free of rocks or sharp edges.
- An open-top steel tank approximately 40-feet long by 10-feet wide and 4-feet deep with internal baffles will be set in the depression and used to separate solids from the drilling fluids.
- 5. An upright, 400-bbl tank will be set adjacent to the open top steel tank and used for circulation and storage of drilling fluids.
- 6. An upright, 400-bbl tank will be set adjacent to the circulation/storage tank and used for storage of fresh water.
- 7. Diversionary berms, ditches or sloping will be constructed as necessary to prevent surface run-off from flowing into depression.
- 8. Sub-surface soil will be used to construct a 1-foot tall berm around the perimeter of the depression to prevent surface run-off water from entering the depression.
- B. Solids all accumulated solids (cuttings) in the open-top steel tank and circulating tank will be removed by a vacuum truck and hauled daily to the Industrial Ecosystem Inc. (IEI) land farm for disposal.
- C. Liquids all liquids (drilling fluids) from the closed loop system will be transferred to the next well in the drilling program for re-use or hauled to Basin Disposal for disposal. All flow back water recovered during completion operations will be collected in a steel storage tank and disposed of at either Basin Disposal or IEI waste disposal facilities.
- D. Spills any spills of non-freshwater liquid will be reported to the Farmington Field Office of the BLM and the New Mexico Oil Conservation District office within 48-hours. The spill will be cleaned up immediately and transferred to either Basin Disposal or the IEI waste disposal facilities.
- E. Sewage portable, toilets will be used to collect and contain human sewage. Toilets will be onsite during drilling and completion activity. The toilet holding tanks will be pumped as needed and the contents will be disposed at an approved sewage disposal facility.
- F. Trash portable dumpsters will be used to collect and contain garbage and other waste material and will be onsite during drilling and completion activity. The contents of the dumpsters will be removed as needed and disposed of at an approved waste disposal facility.

EXHIBIT B.

Operations Plan

Kinbeto Com #90 Lease #NM-13956 NWNE of Section 30, T23N, R10W 990' FNL and 1637' FEL San Juan County, New Mexico

1. APPROXIMATE FORMATION TOPS:

Kirtland	Surface
Fruitland	350'
Pictured Cliffs	660'
Total Depth	820'

Catch samples every 10 feet from 600-feet to total depth.

2. LOGGING PROGRAM:

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

3. CASING PROGRAM:

Hole	Casing		Setting	Grade and
Size	Size	Wt./ft.	Depth	Condition
12-1/4"	8-5/8"	24#	120'	J-55
7-7/8"	5-1/2"	15.5#	820'	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.

4. CEMENTING PROGRAM:

<u>Surface</u>: Cement to surface with 75 sks (98.25 Cu.ft) Type III cement w/ 2 % bwoc $CaCl_2 + 0.25$ lbs/sk Celloflake + 53.6% Fresh Water (15.00 lbs/gal, 1.31 Cu.ft/sk). Circulate cement to surface.

Production: Cement w/ 62 sks Premium Lite FM + 8% bwoc Bentonite + 3% bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 5 lbs/sack LCM-1 + 0.4% bwoc Sodium Metasilicate + 0.4 % bwoc FL-52A + 112.3% Fresh Water (12.1 lbs/gal, 2.13 cu.ft/ft - 132 cu.ft slurry). Tail w/ 88 sks Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sk Cello flake + 0.2% bwoc FL-52A + 59% Freshwater (14.6 lbs/gal, 1.38 cu.ft/ft - 121 cu.ft). Total slurry for the job-253 Cu.ft. Circulate cement to surface. 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.

- 5. Maximum Anticipated Bottom Hole Pressure 300 psi.
- Drilling Fluid will be fresh water with bentonite 8.9#/gal.
- 7. 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#.
- 8. Blow-Out Preventer Equipment (BOPE): Exhibit 8.

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.

9. Contacts: Dugan Prod.Corp. Office & Radio Dispatch: (505) 325-1821

Gerald Wright		Kurt Fagrelius	John Alexander		
(505)632-5150	(H)	(505)325-4327	(H)	(505)325-6927	(H)
(505)330-9585	(M)	(505)320-8248	(M)	(505)320-1935	(M)

EXHIBIT 2

Vicinity Map & Driving Directions Dugan Production Corporation KINBETO COM #90 900' FNL, 1637' FEL Section 30, T-23-N R-10-W, N.M.P.M. San Juan County, New Mexico

Driving Directions

1. From the intersection of Hwy 64 & Hwy 550 in Bloomfield, NM go South on Hwy 550, 28.3 miles to NM-57 at the Blanco Trading Post turnoff.

2. Turn right/West on NM-57, go 10 miles to the intersection of CR7650 (Indian Services Route 7023).

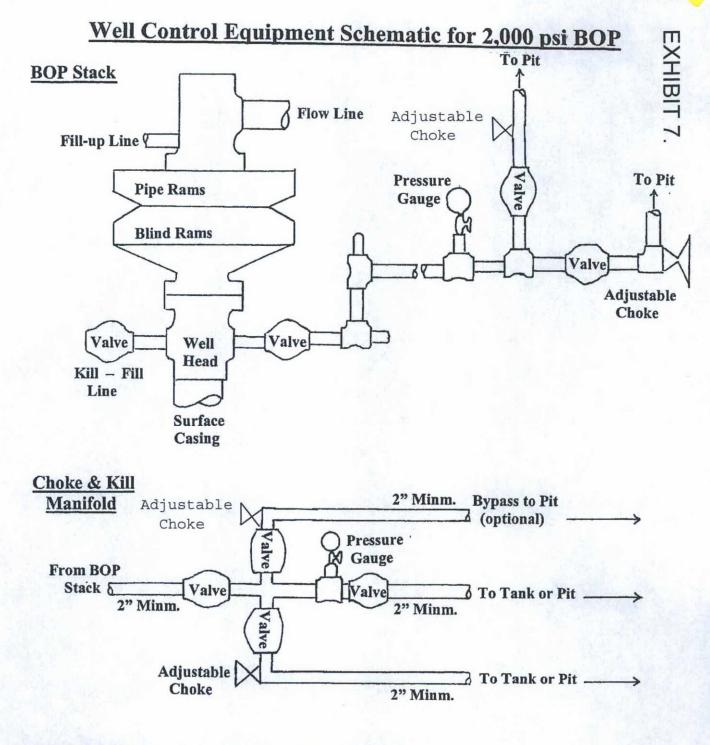
3. Turn right/West onto CR7650 (Indian Services Route 7023), go 3.1 Miles.

4. Turn left/South onto field road passing Dugan Ben Com #90 and onto Dugan Cartwright Com #90 location, approx. 3500' (0.66 Mile).

5. Begin new access staked at South edge of existing location, approx. 3801' (0.72 Mile) to existing to be improved 2 Track.

6. Begin existing access to be improved, approx. 1204' (0.23 Mile).

7. Begin new access approx. 688' (0.13 Mile) to proposed new location.



Working Pressure for all equipment is 2,000 psi or greater

DUGAN PRODUCTION CORP. Kinbeto Com #90